

SAVANNAH STATE COLLEGE



BULLETIN

GENERAL CATALOG
1971 - 1972

SSC



*Savannah State College, a unit of the University System of Georgia,
is a College of Arts and Sciences, Teacher Education, Business
Administration, and Engineering Technology.*

Accredited By

The Southern Association of Colleges and Schools; The State Department of Education; Approved by the Veterans Administration.

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Correspondence should be addressed to officials at Savannah State College, State College Branch, Savannah, Georgia 31404, as indicated:

- | | |
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September

19	Sunday	Dormitories open at 8:00 a.m. for continuing students
20	Monday	Registration for entering students, 8:00 a.m. - 4:00 p.m. Physical examinations and chest X-rays for continuing students, 8:30 a.m.-12:00 noon
21	Tuesday	Registration for continuing students, 8:00 a.m. - 4:00 p.m.
22	Wednesday	Classes begin
22	Wednesday	Registration with payment of late fee
22	Wednesday	First day for adding and dropping courses
23	Thursday	Last day for registration with payment of late fee
28	Tuesday	Last day for adding courses

October

8	Friday	Last day of eligibility for refund for reduced loads
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November

1	Monday	Mid-quarter examinations
4	Thursday	Reporting of Mid-quarter and incomplete grades to the Registrar
25-28	Thursday-Sunday	Thanksgiving Recess
29	Monday	Classes resume

December

1	Wednesday	Last day for dropping courses
7	Tuesday	Pre-registration for the winter quarter
13	Monday	Classes end at close of the day
14	Tuesday	Preparation for examinations
14	Tuesday	Last day for filing applications and paying admission and room deposits for the winter quarter
15-17	Wednesday-Friday	Final Examinations
17	Friday	Fall quarter ends; Christmas vacation begins at close of examinations
17	Friday	Last day for filing requests for refund of admission and room deposits (See Explanation of fees)

WINTER QUARTER, 1972

January

2	Sunday	Dormitories open at 8:00 a.m.
		Dining Hall opens at 12:00 noon
3	Monday	Registration for continuing freshman and sophomore students--8:00 a.m. - 4:30 p.m.
3	Monday	Placement examination--8:30 a.m. - 4:30 p.m.
4	Tuesday	Registration for juniors, seniors, and entering students--8:00 a.m. - 4:00 p.m.
5	Wednesday	Classes begin
		Registration with payment of late fee
		First day for adding and dropping courses
6	Thursday	Last day for registration with payment of late fee
11	Tuesday	Last day for adding courses
21	Friday	Honors Day Convocation
21	Friday	Last day of eligibility for refund for reduced load
29	Saturday	Last day for filing applications for June graduation

February		
7	Monday	Mid-quarter examinations
11	Friday	Reporting of Mid-quarter and incomplete grades to the Registrar
19	Saturday	Examination, History of the United States and Georgia
March		
1	Wednesday	Last day for dropping courses
March		
6	Monday	Last day for filing requests for refund of admission and room deposits (See explanation of fees)
7	Tuesday	Pre-registration for the Spring Quarter
13	Monday	Classes end at close of day
14	Tuesday	Preparation for examinations
15-17	Wednesday-Friday	Final examinations
17	Friday	Winter quarter ends

SPRING QUARTER, 1972

March		
22	Wednesday	Registration for continuing and freshman and sophomore students--8:00 a.m. - 4:00 p.m. Placement examinations--8:30 a.m. - 4:30 p.m.
23	Thursday	Registration for juniors, seniors, and entering students--8:00 a.m. - 4:00 p.m.
24	Friday	Classes begin Registration with payment of late fee
27	Monday	First day for adding and dropping courses Last day for registration with payment of late fee
30	Thursday	Last day for adding courses
31-April 3	Friday-Monday	Easter Holidays
April		
11	Tuesday	Last day of eligibility for refund for reduced loads
24	Monday	Mid-quarter examinations
27	Thursday	Reporting of Mid-quarter and incomplete grades to the Registrar
29	Saturday	Applications due for Regent's Scholarships
May		
5	Friday	Awards Day
12	Friday	College Level Examination Program
17	Wednesday	Last day for dropping courses
23	Tuesday	Pre-registration for the fall quarter
29	Monday	Classes end at the close of the day
30	Tuesday	Preparation for examinations
31-June 2	Wednesday-Friday	Final examinations
June		
2	Friday	Spring quarter ends
4	Sunday	Baccalaureate-Commencement Convocation

SUMMER QUARTER, 1972

Regular Session (10 Weeks)
Six-week Session
Four-week Session

June 12 - August 18
June 12 - July 21
July 24 - August 18

REGENTS, UNIVERSITY SYSTEM OF GEORGIA

244 Washington Street, S. W. — Fourth Floor

ATLANTA

<i>District</i>	<i>Regent</i>	<i>Address</i>
State at Large	William S. Morris III January 5, 1967 - January 1, 1974	P. O. Box 928, Augusta 30903
State at Large	Phillip H. Alston February 3, 1971 - January 1, 1978	C&S Bank Bldg. Alston, Miller & Gaines Atlanta 30303
State at Large	Roy V. Harris February 17, 1967 - January 1, 1974	Suite 500, 500 Building, Augusta 30903
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State at Large	Carey Williams January 1, 1962 - January 1, 1969	Greensboro 30642
First	Mrs. Hugh Peterson February 2, 1970 - January 1, 1976	Ailey
Second	John I. Spooner January 1, 1961 - January 1, 1968	Seldom Rest Farms, Donalsonville 31745
Third	T. Hiram Stanley January 13, 1965 - January 1, 1972	2501 Lookout Dr., Columbus 31906
Fourth	John R. Richardson January 1, 1970 - January 1, 1977	Lake Rockaway Road, Conyers 30207
Fifth	W. Lee Burge January 8, 1968 - January 1, 1975	Retail Credit Company, P. O. Box 4081 Atlanta 30302
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Seventh	James V. Carmichael January 19, 1966 - January 1, 1973	Marietta 30062
Eighth	John W. Langdale January 13, 1964 - January 1, 1971	Box 980, Valdosta 31602
Ninth	James A. Dunlap January 10, 1966 - January 1, 1973	P. O. Box 1, Gainesville 30501
Tenth	G. L. Dickens, Jr. February 5, 1965 - January 1, 1972	140 W. Washington St., Milledgeville 31061

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¹On leave, 1970-71

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¹On leave, 1970-71

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Laverne B. Cooper	<i>Clerk, Dean of Faculty</i>
Emma Ellington	<i>Secretary, Student Union</i>

Ruby L. Gooddine Harris Area Trade School	<i>Clerk, Comptroller's Office</i>
Beautine W. Hardwick B.S., Savannah State College	<i>Secretary to the President</i>
Rufus R. Hogan Culinary Institute of America; Wessnor Institute; Brockton Cooking and Baking Institute	<i>Director of Food Service</i>
Barbara Holmes	<i>Clerk, Registrar's Office</i>
Josephine F. Hubert B.S., Savannah State College	<i>Director, Secretarial Center</i>
Doris H. Jackson B.S., Savannah State College	<i>Cashier</i>
Juanita Jackson B.S., Savannah State College	<i>Administrative Intern</i>
Maxine Jackson B.S., Savannah State College	<i>Secretary, Buildings and Grounds</i>
Constance Jenkins B.S., Savannah State College	<i>Secretary, Buildings and Grounds</i>
Leonard Jenkins B.S., Savannah State College	<i>Assistant to the Registrar</i>
Lou Arie Jenkins Savannah Vocational School	<i>Secretary, Secondary Education Department</i>
Patricia W. Johnson Morris Brown College	<i>Clerk, Post Office</i>
Shirley Johnson	<i>Secretary, Public Relations</i>
Rosella Kirkland B.S., Clark College	<i>Secretary, President's Office</i>
Earnestine Lang B.S., Savannah State College	<i>Nursery School</i>
Anne Logan	<i>Secretary, Division of Business</i>
Charlene Manigault	<i>Clerk, Registrar's Office</i>
Laura McGraw B.S., Savannah State College	<i>Clerk, Comptroller's Office</i>
John W. Merritt Savannah State College	<i>Procurement Officer</i>
Percy L. Miller Savannah State College	<i>Postmaster</i>
Lois Milton B.S., Savannah State College	<i>Secretary, Graduate Program</i>
Floyd Mincy B.S., Savannah State College	<i>Director, Student Union</i>

Margaret Mitchell	<i>Clerk, Library</i>
Tommie L. Mitchell B.S., Savannah State College	<i>Administrative Intern</i>
Erma M. Mobley B.S., Savannah State College	<i>Secretary, Home Study Department</i>
Lenora G. Moye Harris Area Trade School	<i>Clerk, Registrar's Office</i>
Gloria Moore	<i>Key Punch Operator</i>
Alvin Ogden	<i>Manager, Warehouse</i>
Phillis M. Priester Savannah State College	<i>Secretary, Student Personnel</i>
Savita Raut B.S., R.R. College, University of Bombay, India	<i>Clerk, Comptroller's Office</i>
Hilda E. Reaves Shorts Secretarial School	<i>Secretary, Developmental Educational Program</i>
Harriette Redd Savannah State College	<i>P.B.X. Operator</i>
Evelyn Richardson B.S., Savannah State College	<i>Clerk, Library</i>
Marion P. Roberts A.B., South Carolina State College	<i>Secretary to the Comptroller</i>
Willie Mae Robinson	<i>Secretary, Upward Bound</i>
Edward Rouse B.S., Savannah State College	<i>Accountant</i>
Anthony Sheffield B.S., Savannah State College	<i>Accounting Clerk</i>
Harold Singleton B.S., Savannah State College	<i>Manager, College Bookstore</i>
Annie B. Smith Savannah State College	<i>Secretary to the Dean of Faculty</i>
Brenda G. Smith Savannah Vocational School	<i>Secretary, Division of Natural Science</i>
Martha K. Stafford B.S., Savannah State College	<i>Secretary, Division of Technical Science</i>
Julie Tremble Savannah Vocational School	<i>Clerk, Alumni Office</i>
Darnell Walker B.S., Savannah State College	<i>Accounting Clerk</i>
Rachel Walker	<i>Clerk, Library</i>
Lillian R. Washington Savannah State College	<i>Secretary, Chemistry Department</i>

Mildred S. Washington Albany State College	<i>Secretary, Student Personnel</i>
Jeanette Westley B.S., Savannah State College	<i>Accountant</i>
Herbert O. White B.S., Alabama A. and M. College	<i>Assistant Superintendent of Buildings and Grounds</i>
Thomasina White Savannah State College	<i>Secretary, Division of Education</i>
Florence B. Williams B.S., Savannah State College	<i>Secretary, Self-Study</i>
John I. Wright B.S., Savannah State College	<i>Internal Auditor</i>
Cledith Young Savannah Vocational School	<i>Receptionist, Registrar's Office</i>
Jeroldine Ziegler Harris Area Trade School	<i>Clerk, Comptroller's Office</i>

SECURITY STAFF

Matthew H. Howard	<i>Chief of Security</i>
Hyland McCarthy	<i>Security Guard</i>
Sherman L. Scott	<i>Security Guard</i>
Oriest Thomas	<i>Security Guard</i>
Steve J. Taylor	<i>Security Guard</i>

GENERAL INFORMATION

History

By Act of the General Assembly on November 26, 1890, the State of Georgia "established in connection with the State University, and forming one of the departments thereof, a school for the education and training of Negro students." By the same Act, the Governor was empowered to appoint "five fit and discreet persons, residents of the State, to be known as the Commission on School for Negro students." This commission was to "procure the grounds and buildings necessary for the establishment of the school," to prescribe a course of training to be provided for all the students in said school, "embracing the studies required by the Acts of the Congress of the United States, approved July 2, 1862, and August 30, 1890, making donations of public lands and the proceeds thereof to the States and Territories for educational purposes."

It was further enacted that "the said school, when so established, shall be part of the University of Georgia," and the Commission named in the Act appointed by the Governor, "shall constitute the local Board of Trustees for the School, with perpetual succession." This commission was given immediate control, supervision and management of the school, subject to the general Board of Trustees of the University of Georgia. The Chairman of the local Board of Trustees was made ex-officio member of the general Board of Trustees of the University, and the Chancellor of the University of Georgia was given general supervision of the school.

A preliminary session of the school was held between June 1, and August 1, 1891, at the Baxter Street School building in Athens, Georgia, by direction of the Commission to Chancellor Boggs. Richard R. Wright, the first principal, and three other instructors constituted the faculty. In the following year the school was relocated at its present site which is approximately five miles southeast of the Courthouse of Savannah, Georgia, partly in Savannah and partly in Thunderbolt. At this time the Commission referred to the institution as "The Georgia State Industrial College for Colored Youths." It selected a faculty consisting of Major Wright as President, instructors in English, mathematics, and natural sciences, a superintendent of the mechanical department, and a foreman of the farm.

During the thirty years that Major Wright served as President, the enrollment increased from 8 to 585; the curriculum was built up to four years of high school training and a normal division; and training was begun in agriculture and the mechanical arts. Starting the school with 86 acres of land on which two buildings and a farm house were erected, Major Wright added four frame trade buildings, Meldrim Hall (1896), Hill Hall (1901), a dairy barn and creamery (1904), a shoe repair shop, laundry, and home economics building (1915).

Several changes were made during the presidency of C. G. Wiley (1921-1926). During his first year of service, the Commission admitted young women as boarders. The first regular summer school was conducted between June 26, and August 4, 1922. In 1925 the General Assembly of Georgia changed the form of the governing body for the institution from a Commission with "perpetual succession" to a Board of Trustees with a four-year term of office.

During the administration of the third President, Dr. Benjamin F. Hubert (1926-1947), the entire academic program was reorganized. The high school and normal departments were discontinued and the school became a four-year college, offering the bachelor's degree in agriculture and home economics.

In 1931, the State, upon the advice of a special committee of authorities in education which had been invited to make a study of the University System, placed the entire System under a Board of Regents. At that time the College began to offer degree programs with majors in English, the natural sciences, social sciences, and business administration.

Until 1947, the College served as the state land-grant institution for Negroes. In that year this function was assumed by Fort Valley State College.

During the administration of President James A. Colston (1947-1949), the faculty was strengthened and improvements were made in the physical plant. Among the programs that were launched at this time were the Alumni Scholarship Drive, Campus Chest, Annual Men's Day, Religious Emphasis Week, Freshman Week, and the Cultural Artists Series. Expanded programs of student personnel services and public relations, a reading clinic, and an audio-visual aids laboratory were instituted under the leadership of President Colston.

Dean W. K. Payne became acting president of the College on September 1, 1949. The Regents of the University System of Georgia changed the name of the College from Georgia State College to Savannah State College on January 18, 1950. Dr. Payne became the fifth President of the College on March 1, 1950; he served in this capacity until his death on July 26, 1963.

At the beginning of Dr. Payne's administration, Savannah State College was granted membership in the American Council on Education. During the course of his administration the curriculum was expanded and improved and the institution was admitted to membership in the Southern Association of Colleges and Schools. In addition, the academic program of the College was organized under seven divisions—Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Home Study.

Dr. Howard Jordan, Jr., became President of the College on November 1, 1963. Under the leadership of Dr. Jordan rapid progress is being

made in developing a building program which will provide additional modern facilities for the furtherance of a sound and well-rounded educational program. Additional curricular improvements are underway. The enrollment of the college has increased significantly, and the faculty has been augmented and strengthened.

Buildings and Grounds

The campus, comprising one hundred and thirty-six acres, presents a setting of unique natural beauty. Among the thirty-six buildings are such recently completed structures as the library, the technical sciences building, Wiley Gymnasium, and a dormitory for one hundred young women.

Among the buildings constructed during the administration of the first president, Major Richard R. Wright, which are still in use are Meldrim Hall (1896), Hill Hall (1901), and Hammond Hall (1915). All of these buildings have been extensively renovated since their erection. Meldrim Hall, which had been burned, was rebuilt in 1926. Located in Meldrim Hall are administrative offices, and an auditorium; Hill Hall houses the bookstore, snack bar, and post office; and Hammond Hall serves as a home economics building.

During the administration of Dr. Benjamin F. Hubert, the following buildings were added to the physical plant: Adams Hall (1931), Willie Powell Laboratory School (1932), shops for masonry and auto mechanics (1935), Morgan Hall (1936), Willcox Gymnasium (1936), Herty Hall (1937), Camilla Hubert Hall (1938), Information Cabin (1940), Community House (1941), Incubator House (1941), three teachers' cottages, a cannery and farm shop building (1943), trades building (1947), and poultry houses.

Two temporary buildings were erected during the administration of Mr. James A. Colston—a fine arts building and a structure which served as a college center. In addition, an infirmary which was later renovated was constructed during the presidency of Mr. Colston. At the present time the college infirmary is a modern eighteen-bed structure which is staffed by a full-time nurse and a physician. It provides for the needs of students who require treatment or confinement for minor illnesses.

An extensive building program which began in 1951 during the administration of Dr. W. K. Payne is still in progress. Wright Hall (men's dormitory), a library, the technical science building, a central heating plant, and a sewage disposal system were completed. Construction was begun on a dormitory for women, which was completed in the summer of 1964. Herty Hall was remodeled and now is used for instruction in the natural sciences. Morgan Hall which once served as the trades and industrial building has been renovated and now houses the Division of Business. A four-unit, all weather, tennis court has been erected adjacent to the athletic field.

In the fall of 1965, the Board of Regents approved the following names for buildings which were erected during Dr. Payne's administration: (1) the Asa H. Gordon Library; (2) Janie L. Lester Hall (a dormitory for young women); and (3) Benjamin F. Hubert Center (technical sciences building). Dr. Gordon served as Dean of the College from 1928 to 1936 and as Director of Research and Publications from 1937 until 1941. Miss Lester rendered distinguished service to the College for a quarter of a century and was Dean of Women at the time of her death in 1951.

Rapid progress is being made in developing an expanded building program under the leadership of President Howard Jordan, Jr. At the beginning of the 1965-1966 school year, the following recently completed buildings were occupied for the first time: (1) W. K. Payne Hall, a two-story air-conditioned classroom building consisting of fifteen classrooms, office space for thirty-two instructors, data processing facilities, a language laboratory, a reading clinic, and an administrative area; (2) Lockett Hall, a dormitory for 180 young women, which was named in honor of Professor and Mrs. John A. Lockett who were associated with the College for a number of years; and (3) an annex to Wiley Gymnasium which consists of a swimming pool, classrooms, and additional spectator seating for indoor sports. In addition, the John F. Kennedy Fine Arts Center, which includes a Little Theater, was occupied for the first time in the winter quarter of 1967, and the A. E. Peacock Hall, a dormitory accommodating 180 men, was completed and occupied in the spring of 1967. Built near the north entrance to the campus, Peacock Hall is a modern three-story building consisting of ninety studio type bedrooms, a lobby, recreational area, an apartment for the house director, a barber shop, a room for television viewing, and a laundromat.

The Library

A modern, new library with a well-prepared staff serves the college and community. It houses more than eighty thousand well selected books, forty-two newspapers and approximately 949 periodicals. Approximately eight thousand volumes are added yearly to keep the collection up to date. There is an extensive collection of materials by and about the Negro.

This air-conditioned, modular structure provides excellent library facilities. There are two main reading rooms with open stacks, a seminar room, lounging area, audio-visual center, and a curriculum materials center. The latter affords prospective and in-service teachers an opportunity to examine and use recently published instructional materials. There is also a music room, equipped with individual earphones and recordings of the best music. The library is the cultural and intellectual center of the college and community.

Academic Rating

Savannah State College is accredited by the Southern Association of Colleges and Schools and by the Department of Education of the State of Georgia.



Honor Society



Who's Who

PURPOSES AND OBJECTIVES OF THE COLLEGE

"Savannah State College, a unit of the University System of Georgia, is a College of Arts and Sciences, Teacher Education, Business Administration, and Engineering Technology.

"The College is strongly committed to the general philosophy of formal education which aims at the development of intellectual, vocational, physical, and social competence of the individual student, no matter what his future specialty may be. It also realizes that the aim of education is not only to enrich the minds of the students with new knowledge, but also to help them rise to their fullest spiritual and moral stature. In addition, the College acknowledges and accepts a special responsibility to encourage and assist the revolution of rising expectations among disadvantaged Americans. With these factors in view, the College seeks to provide an educational and social environment designed to overcome any motivational and/or educational deficits which the student might have, and then to help the student, whether he be disadvantaged or advantaged, to expand his knowledge, broaden his outlook, and develop his talents and individuality to the end that he can become a creative and active participant in the drama of life.

"The College, therefore, has several missions to fulfill. It affords students an opportunity to acquire the kind of education that will enable them to contribute effectively to American society's continuing effort to become more democratic and more just at home and in its relations with other members of the world community. It also provides continuing educational and cultural services for the people of Georgia and the larger community. Although emphasis has been placed on teaching and learning with the students at the core, the College also strives to utilize its facilities for the advancement of the welfare of the faculty, staff, and citizens of the immediate community which it serves. Thus, it is cognizant of the need to encourage subsidized institutes in order to upgrade in-service teaching. The College is also aware of the need to motivate faculty-student participation and involvement in community development programs.

"Consistent with the above philosophy and purpose, the institution has several major objectives to cultivate the student's intellectual, artistic, cultural, and physical capacity to earn a respectable and responsible position in society. They are designed to help a student:

"1. To gain basic preparation, knowledge, and skills necessary to the satisfaction of his personal needs as well as the needs of home and society.

"2. To acquire specialized training in one of the many available areas, and to develop individual talents and intellectual curiosity which are essential to further study and progress.

"3. To broaden his understanding and appreciation of his own as well as other cultures.

"4. To develop an understanding of mental, emotional, and physical health, and to practice habits that are conducive to sound personal and community health.

"5. To acquire a motivation for self improvement, and to attain an awareness of social and civic responsibilities in order to carry out effectively the duties and obligations of good citizenship.

"To attain these objectives, the College offers formal instruction organized within seven divisions: Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Home Study. Additionally, in pursuit of these goals, the College:

"A. Selects and upgrades teachers, counselors, personnel workers, and administrative and auxiliary personnel.

"B. Gives students due responsibility in making their own educational decisions with advice of the faculty, through their participation in the government of the College and a program of extra-curricular activities.

"C. Draws upon available intellectual, cultural, and technical resources to enrich the lives of the students.

"The total resources of the College are dedicated to the student's mental, physical, and emotional maturity."

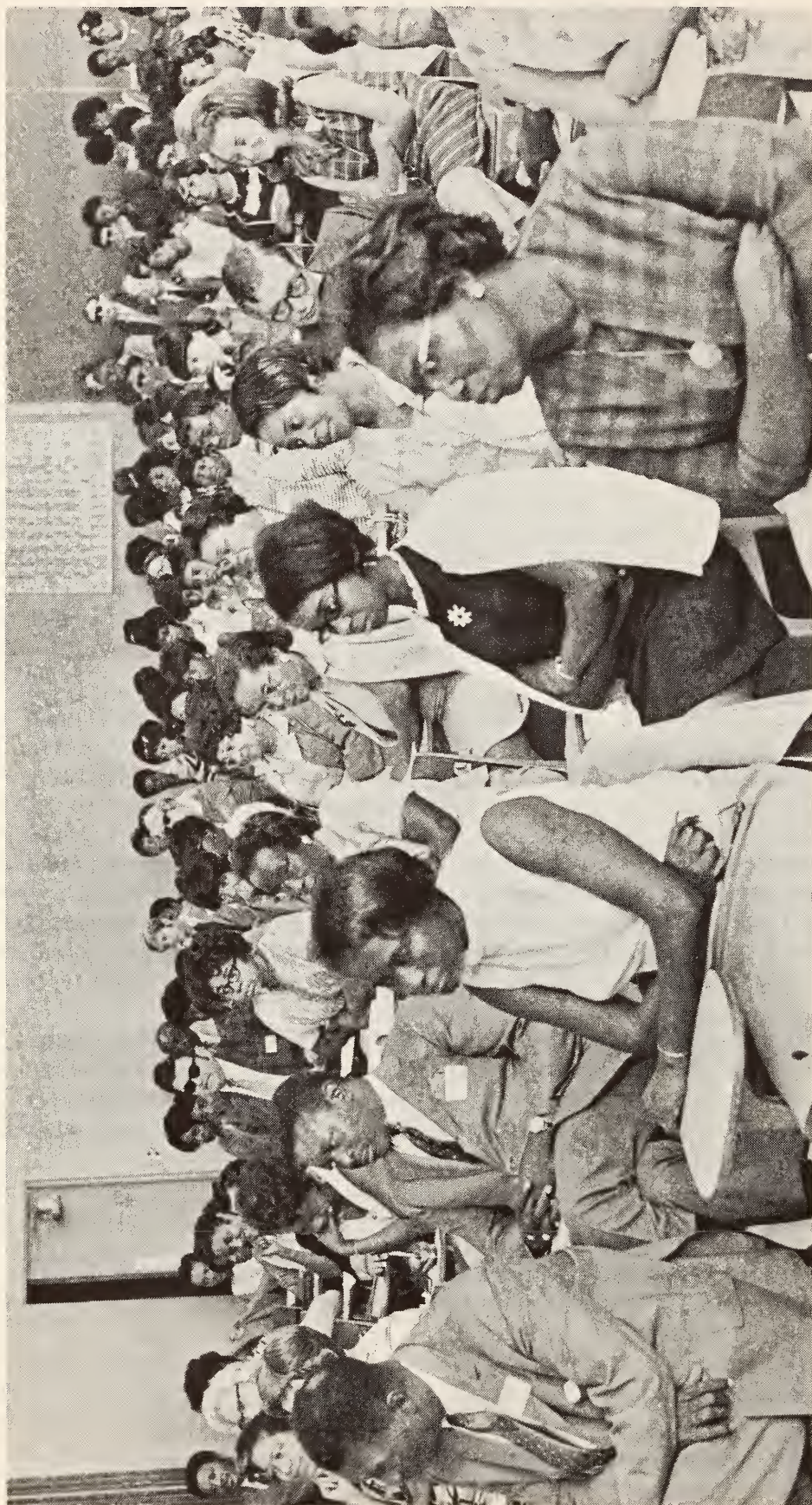
STUDENT ACTIVITIES AND SERVICES

Savannah State College makes a concerted effort to insure wholesome personal development and growth for those students who reside in its dormitories. Residence halls for men and for women are equipped with essential furniture. Students provide their own bed linen, blankets, towels, bedspreads, and scarfs.

Residential life of women students is supervised by the Dean of Women and head residents. Through dormitory clubs, the women students help to plan dormitory activities and participate in developing standards of conduct and determining social regulations for the groups.

Dormitory life for men is supervised by the Dean of Men and the head resident. Practice in democratic living is provided through dormitory organization, enabling the men to work with the staff in planning projects, stimulating achievement, and promoting optimum personal development.

By action of the Board of Regents, out-of-town students are allowed to live away from the campus only when no space is available in campus dormitories.



TEACHER EDUCATION DAY

STUDENT CONDUCT

Each student enrolled at Savannah State College is expected at all times to exemplify due respect for order, morality, and the rights of others.

The college reserves the right to exclude at any time any student whose conduct is deemed improper or prejudicial to the welfare of the college community.

RELIGIOUS LIFE

Savannah State College puts great emphasis upon a rich and varied religious life program. Through its religious activities, the college seeks to develop an understanding of and an appreciation for the place of religion in everyday living, to deepen spiritual insight, and to make the practice of religious principles a vital part of the life of the well educated citizen.

Weekly church and vesper services bring to the campus outstanding thinkers and leaders in religious and social living.

Religious life activities are directed by the College Minister. The Sunday School, YMCA and YWCA, and the annual Religious Emphasis Week provide opportunities for religious growth and development under the supervision of the Religious Life Committee

POLICY ON USE OF DRUGS

In the interest of health and safety of every student enrolled at Savannah State College, the use of controlled drugs not prescribed by a physician or dentist is prohibited. Students may not make available to other persons any of the drugs so described.

STUDENT PERSONNEL SERVICES

The Dean of Students at Savannah State College is responsible to the President for the over-all administration of the Student Personnel Program. The Dean of Men and the Dean of Women share with the Dean of Students the administration of the Student Personnel Program with primary responsibility for the program as it pertains to male and female students respectively.

In the broadest sense, the Student Personnel Program is concerned first with the life of the student outside the classroom. This definition, however, is inadequate as every person involved in student personnel work at the College, as is true of the faculty and other administrative officers, is deeply interested in the academic work of our students. The intellectual development of the student is and must continue to be the primary objective of Savannah State College.

The rationale for having an effective Student Personnel Program is that among those engaged in the process of learning, the students who are best equipped to gain most from individual study are the ones who have been properly selected for college, are physically and emotionally healthy, are well-adjusted and strongly motivated, are pursuing programs of studies suited to their interests, aptitudes, and abilities, have had minimized their financial and personal problems, have reasonable recreational and social opportunities, and are adequately housed and properly fed.

The purpose of the Student Personnel Program is the establishment of these optimum conditions for each student. It should be noted, however, that these objectives are not exclusively the province of the Student Personnel staff as the entire faculty and staff are involved in their fulfillment.

The doors of the Office and the services of the Student Personnel staff are never closed to those students who need and seek help.

Orientation

The orientation program is under the supervision of the Office of Student Affairs. It is designed to assist new students in becoming acquainted with other students, with college regulations, with routine procedures, with campus traditions, with the opportunities offered for training here, and with specialized vocational guidance.

The program begins intensively during Freshman Week. It continues throughout the student's first year, in the weekly series of Freshman Lectures. Freshman Week meets the immediate informational needs of students entering the college. Freshman Lectures, required of freshmen and transfer students, are designed to facilitate the process of total adjustment to college and to life.

Counselling and Guidance

A counselling and guidance service is provided for all students through the offices of the Dean of Students and his staff. Professional counselling and services are provided students in the following areas: admissions, scholarships, work aid, health, religious values, social activities, job placement, and general life planning. Advisors in all departments provide counselling for course registration and problems that arise in connection with the academic work and progress of students. The duties of the adviser are to assist the student in selecting subjects, to aid him in interpreting the requirements, to guide him in important matters. In case of any proposed change in his program, a student should consult his adviser, who will judge the reason for the change and make recommendation to the Dean of Faculty. However, a student may not change his major during the registration period, nor during the week before and the week after registration. The responsibility for selection of courses rests, in the final analysis, upon the student. It is the primary duty of the student to meet the requirements of his curriculum. A request from the adviser to the student for conference should be complied with promptly.

Health Services

The college health services are maintained to improve and safeguard the health of students. These services are under the direct supervision of the school physician and the school nurse. Medical examinations, medical care, and health consultations are provided for all students. Harris Infirmary, a modern, eighteen-bed building, is provided for students who require treatment or confinement for minor illnesses.

Veterans Services

The Veterans Counsellor is responsible for assisting veterans and dependent children (orphans of veterans) in receiving benefits from the Veterans Administration. He collects and disseminates information to veterans and dependent children, and counsels with them throughout the year about regulations and directives peculiar to their status.

All the curricula of Savannah State College are fully approved by the Veterans Administration for veterans and dependent children.

Veterans and dependent children are urged to report personally to the Veterans Counsellor at Savannah State College immediately after their admission to the college.

STUDENT ORGANIZATIONS

Savannah State College contributes to the attainment of a well-rounded education by providing many opportunities for students to participate in a wide range of significant activities. Through the efforts of organized groups, programs are planned for the social, religious, and cultural advancement of the college community.

The Student Council

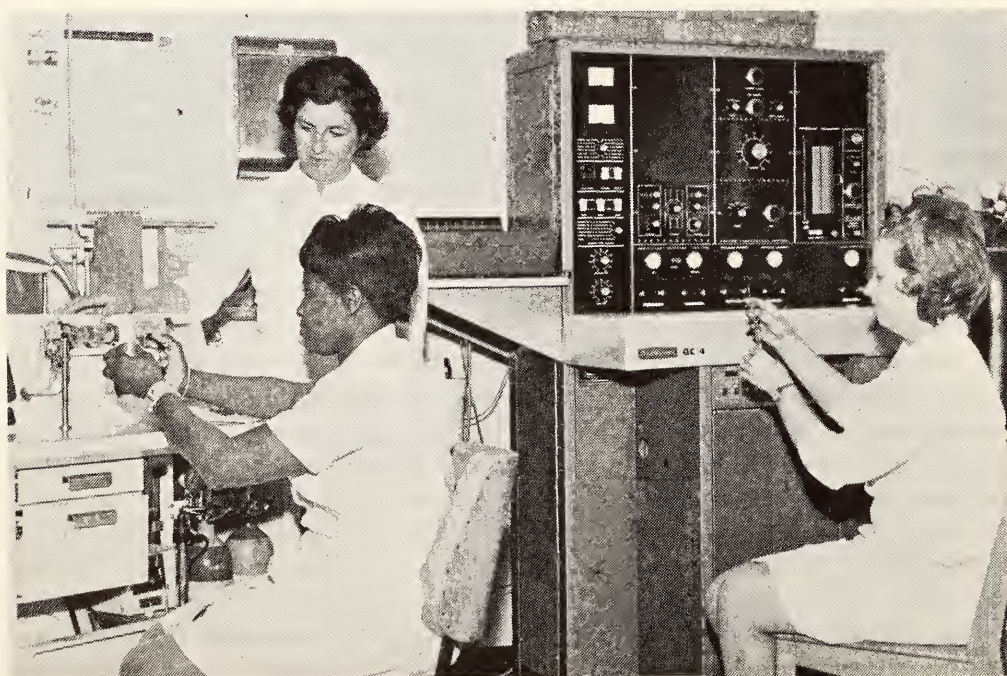
The Student Council, composed of representatives of all classes, works with the administration in the government of the college. It works also with the various campus organizations and sponsors projects for the general welfare of the student body.

Music

The choral society, band, and men's glee club are open for membership to all students interested in music. Grants-in-aid are available in limited amounts for qualified applicants. These groups perform not only locally but also throughout the state and country.



CANDIDATES FOR M.S. DEGREE--AUGUST 1970



MEDICAL TECHNOLOGY--LABORATORY CLASS

Journalism

Students are trained in various phases of publicity by working with the College Press Service.

The *Tiger's Roar*, official student newspaper, is published every six weeks by students under supervision of the Public Relations Office.

The college yearbook, *The Tiger*, is a schoolwide student project which is published through the Public Relations Office.

Clubs

The following organizations also provide media for expression of student interests: Archonian Club, Association of Women Students, Aurora Club, Art Club, Business Club, Camilla Hubert Hall Council, Chemical Society, College Playhouse, Creative Dance Group, Crescent Club, English Club, French Club, German Club, Home Economics Club, Ivy Leaf Club, Lampodas Club, Marshal Board, Newtonian Society, Physical Education Majors Club, Pyramid Club, Scrollers Club, Social Science Club, Spanish Club, Sphinx Club, Student Loan Association, Student National Education Association, Tiger's Roar, Technical Science Association, and Wright Hall Council.

Fraternities, Sororities, and Honor Societies

The following national social fraternities are organized on the campus: Alpha Phi Alpha, Alpha Phi Gamma (journalism), Alpha Phi Omega (service), Kappa Alpha Psi, Phi Beta Sigma, and Omega Psi Phi.

The following national social sororities are organized on the campus: Alpha Kappa Alpha, Sigma Gamma Rho, Zeta Phi Beta, and Delta Sigma Theta.

The national honor societies, Alpha Kappa Mu and Beta Kappa Chi, have chapters on the campus. Both chapters have membership in the Association of College Honor Societies.

These organizations sponsor rich and varied programs, designed for the intellectual and social development of all who take part. Informal socials are held regularly in the campus recreation rooms. Soirees are given at intervals by student groups, under faculty sponsorship, in Willcox Gymnasium.

Recreation And Sports

The Department of Health, Physical Education, and Recreation conducts a well-rounded intramural athletic program of seasonal activities for men and for women in the Wiley-Willcox Complex.

Utilizing group games and various sports for their full educational and health values, the program features football, basketball, track and field, tennis, boxing, golf, baseball, softball, volley-ball, field hockey, badminton, and swimming.

A member of the Southeastern Intercollegiate Athletic Conference, Savannah State College maintains competition in all sports sponsored by the conference.

Savannah State College also holds membership in two national athletic associations: NCAA and NAIA.

Qualified instructors in the Department of Health, Physical Education, and Recreation provide training in the several aspects of the required activity program. Recreational activities, social dancing, swimming and free exercise activities are encouraged and centered in this area. The department makes every effort to provide wholesome recreational activities for all students.

Cultural Opportunities

To complement formal education on the campus, the college provides many activities for cultural enrichment. Student assemblies, institutes, motion pictures, lectures, art exhibitions, dramatics, forums, athletic contests, hobby groups, and tours contribute to the general enrichment of the college community.

The Committee on Campus Life brings to the campus renowned concert artists. All students are encouraged to attend these formal activities which afford inspiring association with outstanding personalities.

The Department of Fine Arts sponsors several musical programs and art exhibitions throughout the school year. The Christmas and Spring concerts, together with the annual Fine Arts Festival celebrating National Music Week during the first week in May, are significant events in the cultural program of the college.

Self Help Opportunities

Worthy and industrious students may help to meet college expenses through part-time employment, provided they maintain satisfactory scholastic averages. These work opportunities include such jobs as clerical and stenographic aide, library aide, waiting tables, pantry and kitchen aide, and skilled and unskilled maintenance work.

Students who plan to apply for part-time work should note carefully:

1. *No student should attempt to enter Savannah State College unless he is prepared to pay the major part of his total college expenses.*

2. *All students are required to pay all entrance expenses when they register. Money earned through part-time work may thereafter be credited to the monthly account.*

WORK ASSIGNMENTS

Students are assigned to work only after they have been admitted and have arrived on the campus. Work assignments are made by the Director of Financial Aid.

Scholarships and Loans

A limited number of special scholarships are available to selected students who meet the required standards of scholastic merit, high character, general promise, and superior achievement in certain specific areas of the college program.

Regents' State Scholarships

The Board of Regents of the University System of Georgia sponsors a program whereby Georgia residents who are currently enrolled at Savannah State College and prospective students who are residents of the State of Georgia may qualify for Regents' State Scholarships. These scholarships were established for the purpose of assisting students of superior academic ability who need financial aid in order to attend college. These scholarships are competitive and eligibility is determined by a student's performance on the CEEB SAT V and M scores and high school or college cumulative grade average. Applications are handled through the Office of the Dean of Students.

Rosenzweig Scholarship Fund

This scholarship was established in 1964 through the generosity of the late Mr. Abraham Rosenzweig and his family and is awarded each year to a junior student with the highest cumulative grade-point average. This scholarship is given at the annual Awards Day program and the selection is made by the Scholarship Committee.

National Defense Student Loan Fund

Savannah State College is a participating institution under the National Defense Education Act of 1958, and student loans are made available to students who are currently enrolled at Savannah State College and prospective students through the National Defense Student Loan program. Student loans are made to students on the bases of need, scholastic ability, good moral character, and future promise. Applications are handled through the Office of Financial Aid.

State of Georgia Student Loans

Any student currently enrolled at Savannah State College and prospective students who are residents of Georgia may apply for a student

loan through the Georgia Higher Education Assistance Corporation. Student loans under this program are made by banks or other lending institutions and the state will pay the interest on the loans while the student is attending Savannah State College. All loans made under this program are repayable after graduation from college with interest at a rate not to exceed six per cent. Applications may be secured from the Office of Financial Aid or the Georgia Higher Education Assistance Corporation, Suite 838, Hurt Building, Atlanta, Georgia.

Pickett and Hatcher Educational Fund

This fund was established by the late Mr. Claud Adkins Hatcher of Columbus, Georgia, for the purpose of helping worthy and deserving students in the pursuit of their college education. Applications and additional information may be secured from the Pickett and Hatcher Educational Fund, P.O. Box 2128, Columbus, Georgia.

Community Services

Recognizing that a dynamic institution is inseparable from its community, both faculty and students of Savannah State College share daily in the constructive interests of Savannah and nearby towns. This college-community relationship is fostered chiefly through activities of the Department of Fine Arts, the Division of Education, and the Office of Public Relations; through the College Artists Series; through lectures by staff persons, and individual membership in community organizations.

ADMISSION

Savannah State College operates on the quarter plan with the fall, winter, and spring quarters normally constituting the academic year. A summer quarter is also offered for students who may wish to accelerate their programs. The requirements for a degree may be completed at the end of any quarter, but only one annual commencement is held. Applicants may qualify for admission at the beginning of any quarter by meeting all requirements listed in this section.

Persons who wish to enroll as students at Savannah State College must present evidence of good moral character, adequate ability, sound health, and interest in a specific course of study which is offered by one of the divisions of the college.

Each applicant for admission is required to make formal application and to submit such credentials as may be needed to support it. The application form may be obtained from the Director of Admissions. In order to insure adequate processing of the request for admission, the applicant should file his application as early as possible in his high school senior year.

An application cannot be considered until the application blank has been properly executed and returned to the institution. The application form, a transcript of the applicant's previous work, results of the College Entrance Examination Board Scholastic Aptitude Test, report of physical examination, and \$25.00 application deposit must be submitted to the Director of Admissions at least twenty days before the registration date for the quarter for which the applicant wishes to enroll. Transcripts should be mailed directly from the applicant's former school to the Director of Admissions.

Savannah State College reserves the right to refuse to accept applications at any time when it appears that students already accepted for the quarter for which the applicant wishes to enroll will fill the institution to its maximum capacity. The college also reserves the right to reject an applicant who is not a resident of Georgia.

Savannah State College reserves the right to require that any applicant for admission shall take appropriate intelligence, aptitude, and physical examinations in order to provide information bearing on his ability to pursue successfully courses of study in which he wishes to enroll, and the right to reject any applicant who fails to pass such examinations.

Admission to the Freshman Class

An applicant for admission to the freshman class must be qualified to do college work, and he must be of good moral character. The college shall have the right to examine and appraise the character, per-

sonality, and physical fitness of the applicant. In order that this examination and appraisal may be made, the applicant shall furnish to the college such biographical information as the college may request.

1. An applicant for admission to the freshman class must have passed satisfactorily the College Entrance Examination Board Scholastic Aptitude Test, and must meet the following conditions:

- a. He must be a graduate of an accredited high school or of a high school that is approved by Savannah State College.

- b. To be admitted without condition, he must have satisfactorily completed 16 units of work in an approved high school with a cumulative grade-point average of not less than "C".

2. The distribution of high school units should be as follows: English—4; mathematics—2; history—2; biological and physical sciences—2; social science—2; optional—4.

The college reserves the right to reject any or all credits from any high school notwithstanding its accredited status when the college determines through investigation or otherwise that the quality of instruction at such high school is for any reason deficient or unsatisfactory. The judgment of the college on this question shall be final.

3. An applicant must submit a recommendation from his high school principal in addition to the official transcript of his high school credits.
4. An applicant may secure information on the College Entrance Examination Board Scholastic Aptitude Test from high school principals or guidance officers. Such information may also be secured from the Director of Admissions at Savannah State College or from the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540. The College Entrance Examination Board will send a report on the scores made by any applicant to Savannah State College at his request. This report should reach the Director of Admissions at least twenty days before the registration date for the quarter for which the applicant wishes to enroll.
5. Each applicant shall take such additional tests as are required by the regulations of Savannah State College. The Director of Admissions will notify the applicant of such tests and of the time and place at which they will be conducted.
6. An applicant for admission must make a deposit of \$25.00. If the applicant is accepted the deposit will be applied toward his matriculation fee for the first quarter of attendance. If the applicant is not accepted, the deposit will be refunded.

An applicant who has made such a deposit and who decides that he does not wish to enroll as a student at Savannah State College may secure a refund of his deposit by requesting its return by the deadline as announced in the college calendar for such refunds. Such an applicant may also permit his deposit to apply to the next succeeding quarter after it is made. Failure to enroll for that quarter will result in the forfeiture of his deposit.

7. An applicant who fails to enroll for the quarter for which he is accepted must re-apply for admission if he wishes to enter the institution at a later time.

Summer Trial Program

"Students who do not qualify for regular admission may be admitted on a trial basis in the Summer Quarter only. Two (2) courses or ten (10) hours of regular college work may be undertaken by them. If the student is successful (achieving a 'C' average), he may then be admitted to regular standing in the Fall Quarter, or any subsequent quarter, as a regular freshman, fully eligible for college work. Any work completed satisfactorily during the trial period may be credited toward regular college work."

Admission to Advanced Standing

A limited number of transfer students may qualify for admission each quarter. General policies governing admission of transfer students and acceptance of credit toward advanced standing are as follows:

1. All regulations applicable to students entering college for the first time shall be applicable to students transferring from other colleges, insofar as the regulations are pertinent to the applications of transfer students.
2. A student transferring from another college will supply the Director of Admissions with transcripts of his records at colleges previously attended. These transcripts must be sent directly from the registrars at the previous colleges to the Director of Admissions. The Director of Admissions will determine the applicant's academic qualifications on the basis of these transcripts.

An applicant will not be considered for admission unless transcripts of his record show honorable discharge from colleges attended.

3. A student transferring from another college must show that at some time he has taken the College Entrance Examination Board Scholastic Aptitude Test, or that he has taken some other equivalent

test approved by Savannah State College. Scores on such tests must be submitted to the college.

4. Students transferring to Savannah State College must submit to the Director of Admissions a personal letter giving full explanation of their reason for desiring to transfer, their work experiences, studies, activities, special interests, and plans for the future.
5. Students transferring to Savannah State College must make a \$25.00 deposit under conditions explained in Item 6, "Admission to Freshman Class."
6. Persons who have earned grades of "C" or higher in courses taken at accredited colleges and who—in the judgment of the Committee on Admissions—have presented otherwise satisfactory credentials may be admitted. Those courses which are equivalent in both time and content to courses offered at Savannah State College may be counted towards advanced standing, except that: courses completed with grades below "C" shall be repeated if required for the degree at Savannah State College. "This section is inapplicable for persons transferring from member institutions within the Georgia University system."
7. A student may not receive credit for more than three years' work at another college.
8. Credit allowed for hours completed in either extension or correspondence courses shall not exceed 45 quarter hours.
9. A transfer student who has earned excessive credit in freshman and sophomore courses may not be granted credit in excess of 90 quarter hours below the junior class level.
10. The college reserves the right to reject any or all credits from other institutions notwithstanding their accredited status when it determines through investigation or otherwise that the quality of instruction at such institutions is for any reason deficient or unsatisfactory. The judgment of the college on this question shall be final.
11. Courses accepted as credits for a degree must have been completed within eight years, counting from the time the first credits were acquired until the time all requirements for the degree have been met.
12. The evaluation of transfer credit is given a student upon admission. The college reserves the right to disallow transfer credit for courses if a student's subsequent grades in required courses in the same subject fall below average.

Transient Students

A student who has taken work in a college may apply for the privilege of temporary registration at Savannah State College. Such a student will ordinarily be one who expects to return to the college in which he was previously enrolled.

The following policies shall govern the admission of students on a transient status:

1. The admissions officer of Savannah State College must be furnished evidence that the institution the student previously attended was an accredited or approved institution.
2. Even though the institution the student last attended is an accredited institution, the admissions officer of Savannah State College may reject the application if he has reason to believe that the quality of the educational program of the institution the applicant last attended is mediocre or unsatisfactory.
3. An applicant will be accepted as a transient student only when it appears that the applicant's previous academic work is of a satisfactory or superior quality. The Director of Admissions shall have the right to require the applicant to submit a transcript of his previous college work.
4. An applicant for admission as a transient student must present a statement from the dean or registrar of the institution that he last attended recommending his admission as a transient student. A transcript is not normally required.
5. In case of doubt as to the qualifications of an applicant who seeks admission as a transient student, the Director of Admissions of Savannah State College may classify the applicant as a transfer student and require the applicant to comply with all regulations regarding the admission of transfer students.
6. Since the college's primary obligation is to its regularly enrolled students, Savannah State College will consider the acceptance of transient students only when their acceptance will cause no hardship or inconvenience to the institution or its regularly enrolled students.

Auditors

Regularly enrolled students at Savannah State College may be permitted to audit courses, provided permission is obtained from the instructor in charge of the course and the dean of the college. The audited course will count at full value in computation of the student's

scheduled load. A student auditing a course will not be placed on the rolls and no report will be made to the registrar.

Members of the faculty or staff of Savannah State College may audit courses, provided permission is obtained from the departments concerned and the Registrar.

Seminars, Short Courses and Institutes

Applicants seeking admission to seminars, short courses, and institutes with programs of work that carry academic credit shall be required to meet all requirements prescribed for admission of students to regular academic programs.

Applicants who wish to enroll in non-credit seminars, short courses, and institutes shall produce evidence to prove:

1. That the applicant has the educational background and the ability to pursue successfully the program of work he wishes to take.
2. That the applicant is of good moral character; that he possesses a sense of social responsibility, and that he has a capacity for growth and development in the program for which he seeks admission.

In the case of an applicant seeking admission to a seminar, short course, or institute, Savannah State College shall have the right to prescribe the types of evidence that an applicant must submit in order to establish qualifications for admission.

Irregular Students or Special Students

Irregular students and special students shall be required to meet all requirements prescribed for admission to regular programs of work and to meet any additional requirements that may be prescribed by Savannah State College.

Other Policies Regarding Admission

When the application, necessary transcripts, College Board scores, and any other required information on an applicant are found to be complete and in order, the applicant will be evaluated in terms of his test scores and grades, scholastic aptitude, social and psychological adjustment, and the probability of his completing the requirements for the desired degree. Savannah State College reserves the right, in every case, to reject any applicant whose general records and attitude do not indicate a probability of success in the Savannah State College environment, notwithstanding the satisfaction of other requirements. Applicants must comply with such other procedures, including per-

sonal interviews and psychological or other tests as may be necessary to determine the applicant's sense of social responsibility, adjustment of personality, sturdiness of character, and general fitness for admission to Savannah State College.

In order that the appraisal of a student's ability and fitness for college work may be as nearly accurate as possible, officials of Savannah State College will study carefully all the information, including biographical data that is submitted by the applicant. Officials of Savannah State College shall have the right to require each applicant for admission to appear for an interview before his application is finally accepted or rejected. If an interview is required, the Director of Admissions will notify the applicant of the time and place in which the interview will be conducted.

The ultimate decision as to whether an applicant shall be accepted or rejected will be made by the Director of Admissions, subject to the applicant's right of appeal as provided by the bylaws of Savannah State College and of the Board of Regents of the University System.

Savannah State College Policy Regarding Non-residents

Applicants who are non-residents of Georgia will be admitted subject to all regulations governing resident students except that an additional fee will be assessed because of non-residence. Determination of non-resident status will be made in accordance with the revised rules on classification of non-residents issued by the Board of Regents of the University System of Georgia on December 12, 1963. A statement of these rules follows:

1. A student who is under 21 years of age at the time he seeks to register or re-register at the beginning of any quarter will be accepted as a resident student only upon a showing by him that his supporting parent or guardian has been legally domiciled in Georgia for a period of at least twelve months immediately preceding the date of registration or re-registration.
2. In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fee.
3. If a student is over 21 years of age, he may register as a resident student only upon a showing that he has been domiciled in Georgia for at least twelve months prior to the registration date.

Any period of time during which a person is enrolled as a student in any educational institution in Georgia may not be

counted as a part of the twelve months' domicile and residence herein required when it appears that the student came into the State and remained in the State for the primary purpose of attending a school or college.

4. A full-time faculty member in an institution of the University System, his wife, and minor children may register for courses on the payment of resident fees, even though the faculty member has not been in residence in Georgia for a period of twelve months.
5. If the parents or legal guardian of a minor changes residence to another state following a period of residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve months' period the student may continue his registration only upon the payment of fees at the non-resident rate.
6. Military personnel stationed in Georgia, and their dependents, may become eligible to enroll in institutions of the University System as resident students provided they file with the institution in which they wish to enroll the following materials:
 - (a) A statement from the appropriate military officials as to the applicant's "home of record";
 - (b) Evidence that applicant, if over 21 years of age, is eligible to vote in Georgia;
 - (c) Evidence that applicant, if under 21 years of age, is the child of parents who are eligible to vote in Georgia;
 - (d) Evidence that applicant, or his parents filed an income tax return in Georgia during the preceding year;
 - (e) Other evidence showing that a legal domicile has been established in Georgia.
7. Foreign students who attend institutions of the University System under the sponsorship of recognized civic or religious groups may be enrolled upon the payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for that institution.
8. All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent residence or who has filed with the proper federal immigration authorities a Declaration of Intention to become a citizen of the United States shall have the same privilege of qualifying for resident status for fee purposes as has a citizen of the United States.

9. Teachers in the public schools of Georgia and their dependents may enroll as students in University System institutions on payment of resident fees, when it appears that such teachers have resided in Georgia for nine months, that they were engaged in teaching during this nine months' period, and that they have been employed to teach in Georgia during the ensuing school year.
10. In the event that a woman who is a resident of Georgia and who is a student in an institution of the University System marries a non-resident of the State, the woman will continue to be eligible to attend the institution on payment of resident fees, provided that her enrollment is continuous.
11. If a woman who is not a resident of Georgia marries a man who is a resident of Georgia, the woman will not be eligible to register as a resident student in a University System institution until she has been domiciled in the State of Georgia for a period of twelve months immediately preceding the date of registration.

REGISTRATION

All students of Savannah State College are required, at the beginning of each quarter of residence:

1. To obtain registration forms.
2. To list on these forms all courses to be pursued during the quarter, and to fill out completely all remaining details, the whole with assistance of departmental advisers.
3. To obtain course cards for each course in which they enroll.
4. To have their study programs approved by the departmental chairman.
5. To pay their fees to the cashier of the college.*
6. To file the Registrar's card and course cards, complete in all details, in the Office of the Registrar.

Completion of the six steps listed above comprises registration in this college. A person may not receive resident credit here unless these steps are completed in due order and on schedule.

Continuing students at Savannah State College will be granted the privilege of completing registration by mail. Information on the procedure should be requested from the Office of the Registrar. A non-refundable \$5.00 deposit is required for this service.

No student will be permitted to register after the last day scheduled for late registration.

*All veterans are required to have their registration approved by the Veterans' Secretary.

Special Regulations Governing Registration:

1. Each student is required to complete all details of registration in person except as provided under registration by mail.
2. Each entering or readmitted student is required to present the *Notice of Admission* when he begins registration.
3. The Registrar provides detailed instructions for registration. Each student, assisted by his adviser, is responsible for completing all forms properly and filing the official registration materials in the Office of the Registrar. *Failure to comply with this regulation will result in forfeiture of credit.*
4. Completion of preliminary registration does not exempt a person from official registration.
5. Each student is personally responsible for keeping accurate record of courses completed and for informing himself as to remaining requirements. Additional credit is not allowed for repeated courses.
6. Psychological and placement examinations are required of all entering freshmen during Freshman Week. Entering freshmen may not be enrolled before they complete these examinations.
7. Freshman Lectures (orientation) is required of all freshmen and transfer students. Such students must therefore list this course on their study programs.
8. Health and physical education courses are required of all freshmen and sophomores. Such students must therefore list these courses on their study programs and pursue the courses throughout the two years.

ESTIMATED GENERAL EXPENSES

For One Academic Year of Three Quarters

NOTE: Fees may be remitted by mail to expedite registration procedures but should be sent by money order, cashier's check or certified check payable to Savannah State College. Fees for any quarter may be paid prior to designated registration dates if desired, in order to avoid the congestion of registration. Fees paid in person will be accepted in the same form as those remitted by mail. No personal checks accepted.

	Per Quarter	Per Year (3 Qtrs.)
Matriculation Fee	\$105.00	\$315.00
Health Fee	10.00	30.00
Student Activity Fee	15.00	45.00
Student Group Insurance (see below)		
 Total Charges—Day Student	 \$130.00	 \$390.00
 Room, Board & Laundry	 291.00	 720.00
 Total Charges—Boarding Students	 \$421.00*	 \$1263.00*

The above table includes basic fees only. Other charges are assessed where applicable. Please see "Explanation of Fees." *All matriculation charges, board, room rent, or other charges are subject to change at the end of any quarter.*

Normal cost of books and supplies approximates \$35.00 per quarter. Students are required to secure all books, supplies, and tools necessary for satisfactory completion of the courses for which they are enrolled.

All fees are due and payable at the time of registration. Students are required to meet financial obligations promptly. Persons granted scholarship or work-aid assistance will be duly notified in writing, and money accruing from these sources will be credited to their accounts.

Veterans coming to Savannah State College should bring with them sufficient funds to pay all fees as indicated on the Schedule of Fees.

Explanation of Fees

APPLICATION FEE. A student applying for admission is required to pay a NON-REFUNDABLE application fee of \$10.00. This fee will not be credited toward other expenses. An applicant who fails to enroll for the quarter for which he is accepted must re-apply (including application fee) if he wishes to enter the institution at a later time.

ROOM DEPOSIT. Entering students and continuing students who live in the college dormitories are required to submit a room deposit of \$25.00 with their requests for room assignment. Upon registration this amount will be applied toward room charges for the quarter. If the student is not accepted by the college, this deposit will be returned in full. An applicant, who, after acceptance for admission, decides not to

*Does not include non-resident tuition.

enroll at Savannah State College may secure a refund of his application deposit by requesting a refund in writing at least twenty days prior to the registration date for the quarter in which accepted.

GRADUATION FEE. A charge of \$12.00 is made to cover the cost of diploma and rental of cap and gown which is payable upon filing application for graduation. This fee is not refundable.

HEALTH FEE. A charge of \$10.00 per quarter is required of each student to finance limited clinical services, bed care in the infirmary for minor illness, and general dispensary care.

LATE REGISTRATION FEE. Students who fail to register on the regular registration day will be charged a late registration fee of \$3.00 for the first day and \$1.00 each for the second and third days, the total not to exceed \$5.00.

MATRICULATION FEE. The charge for matriculation is \$105.00 per quarter for students registering for twelve (12) or more quarter hours. Students registering for less than twelve (12) quarter hours will be charged a matriculation fee at the rate of \$9.00 per quarter hour.

NON-RESIDENT TUITION. Students with residence outside of Georgia, registering for twelve (12) or more quarter hours will be charged non-resident tuition of \$135.00 per quarter.

Students with residence outside of Georgia, registering for less than twelve (12) quarter hours will be charged non-resident tuition at the rate of \$11.00 per quarter hour.

ROOM, BOARD AND LAUNDRY. All students living in the dormitories are required to eat in the college dining hall. The charge for room, board, and laundry is \$291.00 per quarter. Students will be permitted to live in off-campus housing only after all available spaces on the campus have been assigned.

STUDENT GROUP INSURANCE. The Savannah State College student group insurance is available to all full-time students desiring protection. This program is administered by the insurance company with the cooperation of the College, and is on a voluntary basis. All students will be contacted by the approved insurance carrier for their decision.

SPECIAL EXAMINATION FEE. A fee of \$1.00 is required for each special, delinquent, or validation examination. Arrangements for such examinations must be made with the Dean of Faculty.

STUDENT ACTIVITIES FEE. A student activities fee of \$15.00 per quarter is required of each student carrying a full load. Students carrying less than a full load will be charged \$1.25 per quarter hour for activities fee.

TRANSCRIPT FEE. No charge is made for the first transcript issued at the request of a student. A fee of \$1.00 will be charged for each additional transcript.

Withdrawal and Refund Fees

A student who wishes to withdraw from the college follows this procedure:

1. The student must secure forms for withdrawal from the Office of Student Affairs and confer with the Dean of Students.
2. The student will then confer with the Dean of Faculty and secure his endorsement of the request for withdrawal.
3. The student will then take the request for withdrawal to the Registrar for final action.

Students ill at home or otherwise not able to follow this procedure should write or have someone write to the Dean of Students, requesting permission to withdraw.

No refund of fees for any term will be authorized unless the foregoing procedure is completed before the end of such term. The matriculation fee and non-resident fee are subject to the following refund policy which was adopted by the Board of Regents on January 20, 1947:

“For students who withdraw during the first week after registration for the quarter, 80% of the fees may be refunded; for students who withdraw during the second week a refund of 60% will be made; for students who withdraw no later than the end of the third week following registration, a refund of 40% may be granted; for students who withdraw during the fourth week following the scheduled registration date, a refund of 20% will be granted. No refund will be made to students who withdraw after the end of the fourth week following registration.”

Room, board and laundry charges will be made through the end of the week during which the student withdraws. A student who wishes to withdraw from the dining hall and dormitories must secure a permit from the personnel dean. This permit when submitted with the dining hall meal book will entitle the student to a refund.

Refunds for reduced loads (students initially matriculating for less than twelve credit hours) will be forwarded to the student's address of record on or about four weeks from the beginning of each quarter.

No refunds will be made on schedules adjusted after the last day of eligibility for refunds as published in calendar of the college bulletin.

ACADEMIC REGULATIONS

ATTENDANCE

In classroom exercises, laboratory, and class-related activities, Savannah State College provides the necessary facilities, materials, and conditions for the effective training of its students. It is essential that each student share fully in the educational experiences which are provided. There is no compulsory class attendance at the college. However, each student is responsible for all class work undertaken in a particular class during the quarter. It is, therefore, strongly urged that every student make every effort to be present at each class session.

THE GRADING SYSTEM

The college uses letters to indicate quality of academic work. A is the highest grade; D the lowest passing grade. Grade distinctions and quality point values are:

<i>Grade</i>	<i>Meaning</i>	<i>Quality Point Value</i>
A	Excellent	4 per credit hour
B	Good	3 per credit hour
C	Average	2 per credit hour
D	Poor	1 per credit hour
F	Failure	0 per credit hour

All grades of D which are earned in major, minor, or special subject requirement courses must be repeated. Like the higher grades, the grade D is final and cannot be raised by make-up work or examination. When a course in which the grade D is earned is repeated, credit may be received only once.

The grade "F" indicates that the student has failed to meet the minimum requirements of the course, and courses in which this grade is earned must be repeated.

Credit toward graduation may not be earned more than once in the same course. To be granted a degree from Savannah State College every student shall have a minimum cumulative average of "C" (2.00).

GRADES FOR INCOMPLETE COURSES AND WITHDRAWAL FROM CLASSES

The college uses letters to denote incomplete courses and withdrawal from classes. These grades have no quality point value.

The grade I indicates that the student has not completed a small portion of the requirements of the course. It denotes further:

- a. That the student remained in the class until at least ten days prior to the conclusion of the quarter and fulfilled the minimum attendance requirements of the College.
- b. That, though incomplete, the student's work while he remained in the class was of D grade or better.
- c. That either by examination or additional work the student may complete the course on or before the days scheduled for removal of incomplete grades, during the next quarter of residence.

If the next quarter of residence is a summer quarter, the student must remove the I grade during this quarter.

The grade W is given by the instructor when a student withdraws officially from a course on or before the last day for dropping courses. The grade WP (withdrew while passing) is given by the instructor when a student withdraws officially from school and is doing satisfactory work in a course at the time of his withdrawal. The grade WF (withdrew while failing) is given by the instructor when a student withdraws officially from school and is doing unsatisfactory work in a course at the time of his withdrawal.

A student may withdraw from a course at anytime during the quarter up to two weeks prior to the first day of final examinations. Withdrawal must be done formally and all necessary forms must be filled out and turned in to the proper officers. The grade F is given by the instructor when a student withdraws from a course or from school without giving formal notice. This is not the only meaning of the grade F, because it may also mean that the student failed to meet the minimum requirements of the course.

A student who fails to take the final examination in a course and who is failing in this course at the time of the final examination shall be given the grade of F by the instructor.

PROCEDURE FOR WITHDRAWAL FROM COLLEGE

A student who wishes to withdraw from the college must adhere to the following procedure:

1. The student must secure forms for withdrawal from the Office of Student Personnel and confer with the Dean of Students.
2. The student will then confer with the Dean of Faculty and secure his endorsement of the request for withdrawal.

3. The student will then take the request for withdrawal to the Registrar for final action.

Students ill at home or otherwise not able to follow this procedure should write or have someone write to the Dean of Students, requesting permission to withdraw.

Students who withdraw without giving formal notice will forfeit claims for any refunds.

CHANGES IN GRADES

Once an instructor has reported a grade to the Registrar, the instructor may change the grade only under the following conditions:

1. An instructor may change an I (Incomplete) to any grade on designated dates within the quarter when the student is next enrolled in residence. An I automatically becomes F if it is not removed on these designated dates within the quarter when the student is next enrolled in residence.
2. An instructor may change any grade to another grade within one month after the initial report, upon presenting to the Dean of Faculty conclusive documentary proof that the previous grade was reported through an error in transcription.
3. Grade changes requested by instructors after one month must be made to the Academic Council.

MID-QUARTER GRADES

Each faculty member will submit to the Office of the Registrar a report of all deficient grades (D's and F's). The Office of the Registrar will in turn send copies of such reports to the students, their parents or guardian(s), and to departmental heads.

CALCULATING THE SCHOLASTIC AVERAGE

A student's cumulative grade-point average is determined by dividing the number of quality points by the number of quarter hours of courses taken. In calculating the cumulative averages, only the highest grade made in a repeated course may be used.

CLASSIFICATION OF STUDENTS

A student will be classified as a freshman, sophomore, junior, or senior according to the number of quarter hours of work that he has

attempted for which final grades are recorded. The following system of classification is observed:

Freshman	(0-45 hours)	Junior	(90-134 hours)
Sophomore	(46-89 hours)	Senior	(135 hours and above)

STUDENT LOAD

Under ordinary circumstances, a student may not register in any quarter for an academic credit load exceeding the normal requirement of his classification and major. As indicated under *Recognition for Excellence in Scholarship* exceptions are permissible, however, to superior students. In addition, a candidate for graduation who has no scholastic deficiency may enroll for credit in one additional course, if the total load does not exceed twenty quarter hours and failure to take such course would hinder the student from graduating on schedule. In any event, a student will be allowed no credit for an overload unless such overload has the formal approval of both the student's adviser and the Dean of Faculty.

All regular and terminal students are required to pursue courses in the prescribed order. Special students will pursue the courses agreed upon in conference with their advisers.

Deficiencies in required courses take precedence over other courses. Any student who earns a D or an F in a major, minor, professional education, or special subject requirement must forthwith repeat the course.

SCHOLARSHIP STANDARDS

Savannah State College is operated for students who demonstrate seriousness of purpose and the ability and disposition to profit by college work. Students who fail to fulfill the scholarship requirements of the institution are subject to scholastic discipline. At the end of each quarter the Office of the Registrar computes cumulative grade-point averages in order to determine the academic standing of all students in residence. At that time the Registrar shall notify the Dean of Faculty prior to notification of students and their parents or guardians of the academic probation, suspension, or dismissal of students. In addition, he shall notify other appropriate personnel of this action.

The following regulations govern scholarship standards at Savannah State College:

1. Freshmen (0-45 hours) or transfer students who fail to achieve a cumulative average of at least 1.00 after one quarter of residence will not be permitted to enroll during the succeeding quarter. (Grades received in Basic English and mathematics courses will not be considered in computing grade point average).

2. Freshmen who achieve a minimum cumulative grade-point average of 1.00 but not more than 1.50 will be placed on academic probation.
3. Upperclassmen (46 hours and above) who fail to achieve or maintain a cumulative average of at least 2.00 will be placed on academic probation.
4. A student on probation (1) may not register for less than ten hours if resident student (five hours if commuting student) nor more than thirteen hours; (2) must repeat all courses in which he earned the grade of F that are prescribed in his curriculum and all courses in his major and minor concentration and Freshman English in which he earned the grade of D; (3) must report to his academic adviser for counseling service immediately after being notified of his probationary status, and (4) will not be permitted to represent the College or hold office in any college organization.
5. A student on probation whose cumulative average decreases will not be permitted to register for the succeeding quarter.
6. If the student on probation does not remove his probationary status in two succeeding quarters in residence, or maintain a minimum grade point average of 2.50 for each of the two succeeding quarters, he shall be suspended for one quarter. If a student maintains a minimum grade point average of 2.50 while on probation for two succeeding quarters, his probationary period will be extended as long as he maintains this grade point average each successive quarter enrolled.

READMISSION

The following standards govern the readmission of students who have been suspended for academic reasons:

1. Readmission applications are processed by the Committee on Admission in consultation with the chairman of the applicant's major field, and its decision shall be final. Requests for readmission should be addressed to the Registrar of the College.
2. The College reserves the right to deny readmission to any student who has been suspended for academic reasons. A student may apply for readmission in any quarter after he has been out for one quarter. Conditions for readmission are: (1) the filing of an application at least thirty days prior to the beginning of the quarter in which the student expects to resume enrollment; (2) passing of a readmission test by the student which is administered by the College; and (3) submission by the student of evidence of increased motivation and maturity.

3. Applications for readmission are considered by the Committee on Admission on the basis of detailed information concerning the cause of failure, academic goals, entrance tests, college grades previously earned, length of absence, motivation, outside commitments, and recommendations from appropriate personnel.
4. A student readmitted must achieve and maintain a scholastic average appropriate to his class level in all courses that he must repeat and in all new courses that he pursues. He will be allowed three quarters to remove his probationary status, however, if he maintains a minimum grade point average of 2.50 each quarter of his probationary period, his probation may be extended. Failure to fulfill these conditions will result in dismissal. One calendar year after dismissal, a student may petition the Academic Council of the College for readmission if he can convincingly demonstrate that he has had a change of attitude toward his academic responsibilities. However, the student should understand that such permission is rarely granted.

RECOGNITION OF EXCELLENCE IN SCHOLARSHIP

Persons who have not been subject to disciplinary action while earning superior grades, and who, likewise, have not incurred any academic deficiency, are eligible for honors status as here indicated:

1. Students who maintain an average of B in not less than a normal load during a given quarter are eligible for listing on the college honor roll.
2. Students who maintain an average of 3.50, or higher, on a full program in a quarter will have their names placed on the Dean's List for the following quarter.
3. Students who maintain an average of 3.00 during any quarter may secure permission to take additional hours during the following quarter, the total not to exceed twenty hours. Additionally students whose general average is 3.00 or better may also be permitted to take quarter hours in excess of a normal load up to a limit of 20 quarter hours.

GRADUATION HONORS

Graduation with honors is based upon completion of a minimum attendance period of six quarters and completion of at least ninety quarter hours at Savannah State College. In addition, students who graduate with honors must attain the following grade-point averages for the entire period of college attendance:

<i>Cum Laude</i>	3.00
<i>Magna Cum Laude</i>	3.40
<i>Summa Cum Laude</i>	3.75



THE NEW SCIENCE BUILDING

DEVELOPMENTAL EDUCATION PROGRAM

Marceline Erickson, Coordinator

Barbara A. Harper, Reading

Emogene S. Middleton, Counselor

Dorothy D. Smith, Mathematics & Science

The college maintains a Developmental Education Center which provides educational experiences designed primarily for entering freshmen whose reading, language and computational skills are found to be inadequate to enable them to engage in a college program with a reasonable chance of success.

Upon entry, freshmen are tested to determine their competence in the areas mentioned above. These results are used as the basis for assigning students to these classes. The plan of the basic courses is listed below.

Freshman Basic Courses

Basic Courses for freshmen are labeled Humanities 105, basic reading, Humanities 106, basic English and Math 106, basic mathematics. Each basic course will carry five quarter hours of credit.

The course schedules of entering freshmen will be made upon the basis of placement examination test scores. If a student's score on the placement examination indicates the need, he will be placed in the appropriate basic course or courses.

For the student who requires no basic courses, the total number of quarter hours for graduation will be the total number of hours as listed in the institutional catalog for his program for the year of his entry. For the student who must take basic courses, the total hourly requirement will be increased by five hours for each basic course undertaken. Total course load for any one quarter shall be 10 quarter hours.

If the score of a student is sufficiently high in the math and/or hum. area (s), he will be placed in math/hum. 107 and will not be required to take math or hum. 106. If his score is high enough, he may be exempted from math/hum. 107 and go directly to math/hum. 108. In this case, the student will be awarded 5 quarter hours of credit for each course from which he is exempt.

THE CURRICULUM

The formal instructional program of Savannah State College comprises the general curriculum, areas of major and minor concentration, and terminal curricula. The program is organized within the following divisions and departments:

1. The Division of Business Administration

2. The Division of Education

Department of Elementary Education

Department of Secondary Education

Department of Health, Physical Education, and
Recreation

3. The Division of Humanities

Department of English

Department of Fine Arts

Department of Modern Languages

4. The Division of Natural Sciences

Department of Biology

Department of Chemistry

Department of Mathematics and Physics

5. The Division of Social Sciences

6. The Division of Technical Sciences

Department of Engineering Technology

Department of Home Economics

7. The Division of Home Study

The General Curriculum

General education, broadly conceived, is that education which is needed by all citizens in a democratic society. The general education curriculum at Savannah State College stems from cooperative study and planning by faculty members of Albany State College, Fort Valley State College, and Savannah State College. By official action of the faculties of these three state supported institutions, and by approval of the Regents of the University System of Georgia, a common general education curriculum became effective at these three institutions in September, 1953.

Objectives and Scope

General education is here seen not as mere accumulation of factual knowledge, but as pursuit of learning, attitudes, competencies, and values calculated to give the individual a sense of meaning and direction in the democratic way of life. The faculties of the three cooperating colleges have recognized more than a score of general and specific purposes of general education. Some of the objectives of the general curriculum are:

1. Competence in Communication—Through this core of common courses and experiences the constant aim is to help students in the development of habits of effective communication in word and number.
2. Vocational Competence—The aim is to assist students in exploring their vocational and avocational interests and aptitudes, to the end that they may progress toward socially useful and personally satisfying careers.
3. Critical Thinking—The aim is assistance in the development of orderly processes in sifting out and correlating facts and experiences, and in reaching valid judgments.
4. Sound Health—The aim is to help students in acquiring knowledge and habits essential to sound physical and mental health.
5. Moral and Spiritual Values—The aim is to help students toward realization of meaning and direction in life consistent with the highest moral and spiritual values.
6. Comprehension of the Cultural Heritage—The aim is knowledge and understanding of the cultural heritage, its sources, utilization, appreciation, and transmission.

THE DEGREE

Areas of Concentration

The college offers courses leading to the baccalaureate degree with a major in each of these areas of concentration:

Accounting	English
Biology	General Business Administration
Chemistry	Mathematics
Civil Technology	Mechanical Technology
Dietetics & Institution Mgmt.	Secondary Education
Economics	Secretarial Science
Elementary Education ¹	Social Sciences
Electronics Technology	Textiles and Clothing

General Requirements for the Degree are:

1. A minimum of 189 quarter hours, and a maximum of 195 quarter hours, including health and physical education and orientation.
2. A scholastic average of at least "C".
3. Satisfactory completion of the general curriculum in the order as outlined in the specific degree program.

The General Curriculum²

FRESHMAN YEAR

	<i>Quarter Hours</i>
Education 100	Freshman Lectures (R)
Hum. 107-108-109	English Communicative Skills 15
Humanities 131	Introduction to Music and Art 5
Math 107	College Algebra & Trigonometry 5
Biol. 123-124	General Biology
or	
Biol. 125	Introduction to Biological
and	Sciences
Social Science 111	World and Human Geography 10
Physical Education 111-113	Seasonal Activities 2
Social Science 101-102	History of Western Culture 10

SOPHOMORE YEAR

Humanities 207-208-209	World Literature 9
Humanities 141-142-143	French
or 151-152-153	German
or 161-162-163	Spanish 15
Chemistry 101-102	General Inorganic Chemistry
or Physics 201-202	General Physics
or	
Natural Science 203	Physical Science
and	
Social Science 111	World and Human Geography 10

¹Teacher education programs in the following fields at Savannah State College have been approved by the Georgia Division of Teacher Education and Certification: elementary education; secondary education, with a concentration in each—1) business education subjects, 2)English, 3)French, 4)general science, 5)industrial arts education, 6)mathematics, 7)social studies, 8)Spanish, 9)trade and industrial education; grades 1-12, 1)art education, 2)health and physical education, 3)music education, 4)teacher-librarian. These programs are listed under caption of the Division of Education.

²All curricula at Savannah State College are in compliance with the 90 hour general core as adopted by the University System Advisory Council on January 17, 1967.

		<i>Quarter Hours</i>
Physical Education 211-212-213	Seasonal Activities	3
Social Science 201	Psychological Basis for Human Behavior	5

JUNIOR YEAR

Philosophy 300, 301, or 302	Introduction, Logic or Ethics	5
Political Science 200	Government	5

4. A prescribed divisional major (in business administration, education or technical sciences) or a major of at least 45 hours in one department and a minor of 30 hours in another department, with no grade below "C" in major, minor, or special subject requirements. Certain major courses must be taken in residence at this college.
5. Residence of at least one year at Savannah State College. Students who entered the college in September 1955 and thereafter are required to spend the senior year in residence.
6. Examination on the history and constitutions of Georgia and the United States.¹

No student will be admitted to candidacy for the degree before all deficiencies in required major and minor courses have been cleared and the English proficiency and major comprehensive requirements are met.

Each prospective candidate for graduation is required to submit a formal application for the degree. The date for filing the application in the office of the Registrar is listed in the college calendar.

All requirements for graduation must be completed within eight calendar years. The college reserves the right to disallow credit earned more than eight years prior to the quarter in which application for a degree is made.

A student registered at Savannah State College may elect to take courses at Armstrong State College in a manner which is convenient to his schedule and will receive full credit at Savannah State College without additional fees.

A student electing to take courses at Armstrong State College should initiate such procedure upon advice of his major advisor. Formal arrangement for such a course is made through the Office of the Registrar.

TERMINAL COURSES

To meet the needs of persons who are already gainfully employed, but who desire immediate, specialized training, and for others whose opportunity for formal education is limited, the college offers two-year terminal courses in dressmaking and tailoring, and secretarial science. Upon satisfactory completion of a terminal course, the student is given a certificate of proficiency.

¹In conformance with Section 32-706, Georgia Schools Laws, 1942 (Amended March 4, 1953).

DIVISIONAL AND DEPARTMENTAL PROGRAMS

Division of Business Administration

Mary Clay Torian, Chairman

Albertha E. Boston
*Johnny Campbell
Alexander Horsfall
Harvey Jones
Robert Jensen

Arthur T. Kolgaklis
John Lengnick
Herbert A. O'Keefe
Charlease Stevenson
Willie T. Waddell

The main purpose of the Division of Business Administration is to provide for students a sound educational foundation for socially effective and gainful employment in the business world. Specifically, through curricular offerings, supervised work experience, co-curricular activities, and individual counseling for careful selection of courses, the Division prepares students for:

1. Employment as accountants, administrative level secretaries, salesmen, and for mid-management positions in business;
2. Operation, management, and ownership of business enterprises;
3. Teaching business subjects in the secondary school;
4. Further study in accounting, business economics, general business, business education, and other specialized areas in business.

To realize these aims, the Division offers courses leading to the Degree of Bachelor of Science in Business Administration, and a terminal program leading to a certificate of proficiency in various phases of office administration.

Degree Programs

A student in business administration may pursue a major in one of six general areas: (1) accounting, (2) economics, (3) general business administration, (4) office administration, (5) finance, and (6) management-marketing. In addition, persons desiring to become certified as teachers of business subjects on the secondary level will complete all requirements for the major in the Division of Business Administration; but will be awarded the degree in the Division of Education, inasmuch as he must also meet requirements set by the Division of Teacher Education and Certification.

The total quantitative requirements for the degree is 195 quarter hours, including required physical education. The total includes a common liberal arts (general education sequence), a broad core in business administration, and a major-minor concentration. The student may elect a major-minor concentration within the Division or a major in the Division, and with express approval of the Chairman, a related minor in another Division. However, a minor is not an ultimate requirement; a student may wish to pursue free electives instead.

*On leave 1968-1971.

Core Requirements

In keeping with criteria of the American Association of Collegiate Schools of Business, all students in the Division of Business Administration are expected to complete the following core requirements:

Liberal Arts Core: (Including electives)	94
Basic Business Core:	33
Major Specialization Area:	40-41
Electives: (Restricted and non-restricted)*	28-27
Total	195

Liberal Arts Core: (94 hours). The recommended options for business majors in the liberal arts core include the following (or equivalent):

FRESHMAN YEAR

Quarter Hours

Hum 107-108-109—English Communicative skills	15
Hum 131—Introduction to Music and Art	5
Laboratory Science Sequence: Bio 125 and/or PHS 203; or Soc Sci 111 World & Human Geog. / or Chemistry or Physics or Biology two quarter sequence.	10
Soc Sci 101 or 102—History of Western Culture	5
Math 107—College Algebra and Trigonometry	5
PED 111-113—Seasonal Activities / or Swimming	2
Electives from the Division of Business Administration:	
BAD 105—Introduction to Business Organization	3
OAD 201—Elementary Typewriting	2
BAD 103—Business Mathematics	5
	47

SOPHOMORE YEAR

Hum 207-208-209—World Literature	9
ECO 201-202—Principles of Economics I & II	10
Soc Sci 201—Psychological Basis for Human Behav.	5
Pol Sci 200—Government	5
PED 211-212-213—Seasonal Activities / or Swimming	3
	32

SENIOR OR

JUNIOR YEAR

His 300—History of U.S. & Georgia	5
Phil 301—Logic	5
	10

Basic Business Core. (33 hours). All students in the Division, without regard to major areas of specialization, are required to take the following basic business core, which together with 10 hours of Principles of Economics constitutes a minor in general business administration:

	<i>Quarter Hours</i>
BAD 225—Business Communications	3
ACC 201-202—Principles of Accounting	10
BAD 317—Business Law	5
BAD 325—Principles of Marketing	5
BAD 415—Business Organization and Management	5
ECO 332—Business and Economic Statistics I	5
Total	<hr/> 33

In addition, all majors, other than business education, will take the following core subjects as restricted electives:

ACC 203—Principles of Accounting	5
ECO 333—Business and Economic Statistics II	5
BAD 407—Business Finance	5
	<hr/> 15

Cooperative Programs. Through cooperative interchange with Armstrong State College, it is possible for a business major to complete requirements for specializations in marketing and finance, and a wider variety of restricted electives in accounting, general business administration, finance, and economics are available. A student is permitted to take courses at Armstrong on a fee-free basis as long as the total number of hours does not exceed the maximum load per quarter.

In the cooperative major areas, required courses offered only at Armstrong State College are indicated with an asterisk in the curriculum sequence listing.

Business Education. In cooperation with the Division of Education, three teacher certification areas are available for business education majors, with minimum requirements listed below.

Liberal Arts Core:	94
Basic Business Core:	33
Professional Education Core:	41
Restricted Electives: (Teaching Option)	27
	<hr/> 195

Teacher Certification areas are indicated as Options, and are prescribed in accordance with the State Department of Certification as follows:

Option 1. Comprehensive Business Education--qualifying a teacher in all business subjects, except business data processing (minimum hours: 60).

Option 2. Bookkeeping and Business Management--qualifying one to teach all business subjects except shorthand, transcription, and business data processing (minimum hours: 60).

Option 3. Business Data Processing and Accounting--qualifying a teacher in business data processing and related areas, except shorthand and transcription (minimum hours: 60).

Typewriting Proficiency. While proficiency in typewriting is required for all majors, registration in a formal course in typewriting is not required of any major specialization area except business education and office administration. Satisfaction of such proficiency may be ascertained through a typewriting test. To prepare for the proficiency test requirements (a minimum of 30 words per minute), a student may elect to register for one or more courses in typewriting as a part of his free electives. Certification of typewriting proficiency shall be filed with the Registrar. Credit hours, however, shall not be awarded unless the student is officially enrolled in a formal course.

Academic Counseling. Students undertaking work toward a degree in the Division obtain contractual programs of work upon entrance to the Division at the beginning of the Sophomore year. This document lists requirements, optional electives, and blocks of courses in the major area of specialization from which the student may select to fulfill requirements for graduation. The curriculum contract is used as a guide for counseling and at each registration period until graduation. A copy is maintained in the student's personnel folder in the Division; one copy is filed with the Registrar; and one is retained by the student. Inasmuch as there are broad areas of electives, both restricted, and non-restricted, it is essential that the student seek counseling and observe the sequential arrangement of requirements before selecting courses for periodic registration.

The Division Chairman is general adviser to all students in the Division of Business Administration, and special academic advisers are assigned to each student upon entrance to the Division on the basis of specialization areas and freedom of choice by the student if he so desires.

At the beginning of the Senior year, the student files an application for the degree with the Registrar, duly approved by the Division Chairman, and includes a listing of courses completed, grades and quality points earned, and a record of all other college requirements.

Freshman and Sophomore Requirements

The major part of the work in the freshman and sophomore years consists of general education. The freshman listings are in keeping with the common freshman year adopted by the College. The purpose of these courses is to lay a broad foundation of cultural work for the student prior to his undertaking any specialized work.

Following are freshman and sophomore courses for students who plan to pursue a major in the Division of Business Administration. Business Education listings appear in the Teacher Education Curriculums under the Department of Secondary Education.

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Hum 107-108-109	English Communicative Skills	5	5	5
Soc Sci 101 or 102	History of Western Culture	5		
Math 107	College Algebra & Trig.		5	
Hum 131	Introduction to Music and Art			5
Laboratory Science	Sequence: (Biology, Physics, Chemistry, or Physical Science)	5	5	
Edn 100	Freshman Lectures	R		
PED 111-113	Seasonal Activities / or Swimming	1	1	
*Electives:	(BAD 105, 103, OAD 201)		2	8
		<u>16</u>	<u>18</u>	<u>18</u>

SOPHOMORE YEAR

ACC 201-202-203	Principles of Accounting	5	5	5
Hum 207-208-209	World Literature	3	3	3
ECO 201-202	Principles of Economics	5	5	
Soc Sc 201	Psych. Basis for Human Behavior			5
BAD 225	Business Communications	3		
PED 211-212-213	Seasonal Activities / or Swimming	1	1	1
*Electives:	(BAD 201-Elementary Typing and/ or BAD 301-Data Processing and/ or Pol. Sci. 200—Government)		3	2
		<u>17</u>	<u>17</u>	<u>16</u>

Junior and Senior Programs

By the end of the Sophomore year, the student should elect a major area of concentration in one of the following fields: Accounting, General Business Administration, Economics, Finance, Management-Marketing, or Office Administration and follow the suggested sequences below:

1. Accounting

JUNIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
ACC 301-302	Intermediate Accounting	5	5	
ACC 303	Advanced Accounting			5
BAD 317	Business Law	5		
BAD 325	Principles of Marketing			5
ECO 331-332	Economic and Business Statistics I & II	5	5	
ACC 325	Federal Income Tax Procedure		5	
BAD 407	Business Finance			5
*Elective		3		
		<u>18</u>	<u>15</u>	<u>15</u>

*Suggested electives may be taken any quarter, in exchange with any one quarter course, but not with sequence courses.

SENIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
ACC 405	Cost Accounting	5		
ACC 450	Auditing			5
ACC 440	Business Data Processing Systems		5	
BAD 415	Business Organization & Management		5	
PHIL 301	Logic	5		5
HIS 300/ or	History of the U.S. & Georgia			
Pol Sc 200	Government			
*Electives		5	5	5
		<u>15</u>	<u>15</u>	<u>15</u>

*Suggested Electives: ACC 460. CPA Review; ECO 302. Current Economic Problems; BAD 409-410. Administrative Practices and Internship; Math 306-307. Computer Programming, or ECO 323. Money, Credit, & Banking.

2. General Business Administration

JUNIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
ECO 331-332	Business & Economic Statistics I & II	5	5	
BAD 407	Business Finance			5
BAD 317	Business Law	5		
BAD 323	Money, Credit & Banking	5		
BAD 325	Principles of Marketing		5	
BAD 300/ or	Business Machines		5	
Math 306	Computer Programming			
HIS 300	History of the U.S. & Georgia			5
Restricted & Free				5
Electives		3		
		<u>18</u>	<u>15</u>	<u>15</u>

SENIOR YEAR

BAD 409-410	Administrative Practice & Internship	5		5
BAD 415	Business Organization and Management		5	
BAD 465	Business Policy			5
ECO 302	Current Economic Problems	5		
Phil 301	Logic		5	
Electives:		5	5	5
		<u>15</u>	<u>15</u>	<u>15</u>

Suggested Electives: BAD 400. Personal Contemporary Problems; ECO 401. Labor Problems; Math 306-307. Computer Programming; OAD 425. Office Management; BAD 304; 306; 397; 403; and 412.

3. Economics

JUNIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
ECO 305	Intermediate Micro-Theory	5		
ECO 306	Intermediate Macro-Theory		5	
ECO 331-332	Business & Economic Statistics	5	5	
BAD 407	Business Finance			5
ECO 323	Money, Credit & Banking	5		
BAD 325	Principles of Marketing			5
ECO 304	Economic Theory & Hist of Econ Thought		5	
ECO 307	Economic History of the U.S.			5
Elective		3		
		<hr/> 18	<hr/> 15	<hr/> 15

SENIOR YEAR

BAD 450	Business Organization & Mgmt.	5		
ECO 401	Labor Problems			5
Phil 301	Logic		5	
ECO 405	International Economics	5		
ECO 406	Comparative Economic Systems		5	
His 300 or Electives	History of the U.S. & Georgia	5	5	5
		<hr/> 15	<hr/> 15	<hr/> 15

Suggested Electives: ECO 403. Public Finance; ECO 308. Economic History of Europe; BAD 307. Principles of Insurance; other Econ. courses.

4. *Finance

JUNIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
ECO 331-332	Business & Economic Statistics	5	5	
BAD 407	Business Finance			5
BAD 317	Business Law	5		
BAD 323	Money, Credit & Banking		5	
BAD 325	Principles of Marketing		5	
ACC Elective	Cost/ Intermediate / or	5		
	*BA425. Managerial Accounting			
Finance Electives	*BA404. Real Estate/ Income Taxation / or BAD 307 Principles of Insurance			10
		<hr/> 15	<hr/> 15	<hr/> 15

*Cooperative Program, w/Armstrong State College.

SENIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
BAD 409	Administrative Practice & Internship	5		
BAD 415	Business Organization & Management		5	
BAD 465	Business Policy/ or			
*BA 461	Corporate Financial Policy			5
*ECO 431	Investments	5		
Finance Elective:	ECO 403. Public Finance or			
	*ECO 422. Business Fluctuations		5	
His 300 or	History of the U.S. & Georgia			
Electives		5	3	5
Phil 301	Logic		5	
		<u>15</u>	<u>18</u>	<u>15</u>

*Cooperative Program, w/Armstrong State College.

5. *Management-Marketing

JUNIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
ECO 331-332	Business & Economic Statistics	5	5	
BAD 407	Business Finance			5
BAD 325	Principles of Marketing		5	
BAD 323	Money, Credit & Banking	5		
BAD 317	Business Law			5
Marketing Electives: (See below)		5	5	5
Elective			3	
		<u>15</u>	<u>18</u>	<u>15</u>

SENIOR YEAR

*BA 411	Marketing Management	5		
BAD 409	Administrative Practice & Intern	5		
BAD 415	Business Organization & Management		5	
BAD 465	Business Policy			5
Phil 301	Logic		5	
*BA 460	Production Planning and Control		5	
His 300 or	History of the U.S. & Georgia			5
Electives	(See Below)	5	5	5
		<u>15</u>	<u>15</u>	<u>15</u>

Suggested Electives: Total hours in major field should be 40. Select from BAD 304. Salesmanship & Sales Management; BA 306. Retailing; BA 403. Advertising; BA 412. Personnel Management; *ECO 350 Transportation Economics, or equivalent.

6. Office Administration

JUNIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
ECO 331-332	Business & Economic Statistics	5	5	
BAD 409	Business Finance			5
BAD 300	Business Machines			5
BAD 323	Money, Credit & Banking ;	5		
BAD 325	Principles of Marketing		5	
OAD 311-312-313	Elementary, Intermediate, and Advanced Shorthand / or	3	3	3
OAD 302-401-402	Advanced Typewriting & Data Proc.			
OAD 301	Administrative Office Practice		3	
BAD 317	Business Law			5
Elective	Elective	2		
		<u>15</u>	<u>16</u>	<u>18</u>

SENIOR YEAR

OAD 412-413	Advanced Shorthand & Transcription	(3)	(3)	
or				
BAD 412	Personnel Management		5	
OAD 425-426	Office Mgmt. & Internship	5		5
BAD 415	Business Organization & Mgmt.		5	
His 300	History of the U.S. & Georgia	5		
Phil 301	Logic		5	
Electives		5		10
		<u>15</u>	<u>15</u>	<u>15</u>

MINOR PROGRAMS (30 Hours: Elect six courses or 30 hours)

Economics	Accounting	Business Admin.	Office Adm.
ECO 201-5	ACC 201-5	ECO 201-5	OAD 201-2
ECO 202-5	ACC 202-5	ECO 202-5	OAD 202-2
ECO 302-5	ACC 203-5	BAD 317-5	OAD 203-2
ECO 323-5	ACC 301-5	BAD 325-5	OAD 301-3
ECO 331-5	ACC 302-5	BAD 323-5	OAD 302-3
ECO 401-5	ACC 325-5	BAD 415-5	OAD 303-3
BAD 317-5	ACC 405-5	BAD 300-5	OAD 301-3
	ACC 440-5	ECO 331-5	OAD 401-3
			BAD 300-5
			OAD 302-4
			OAD 425-5

CERTIFICATE PROGRAM

In addition to the degree programs, the Division of Business Administration offers a terminal secretarial science course for students who do not find it convenient to remain in college for four years. Through intensive study and concentrated effort, such students are enabled to prepare for such positions as typists, stenographers, bookkeepers, and file clerks.

Students interested in the two-year program should carefully plan their schedules with the Chairman of the Division of Business Administration at the beginning of the first year. All terminal students are reminded that, in addition to courses prescribed below, they must satisfy the history and constitutions requirements.

Upon satisfactory completion of the program, the student is awarded a certificate of proficiency in secretarial science.

TWO-YEAR SECRETARIAL SCIENCE CURRICULUM

FIRST YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Bus Adm 103	Business Mathematics		5	
Bus Adm 104 or Math 107	Business Mathematics College Algebra			5
Bus Adm 105	Introduction to Business			3
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
OA 101-102-103	Elementary Typewriting	2	2	2
OA 311-312-313	Elementary Shorthand	3	3	3
OA 102	History of Western Culture	5		
		<hr/> 15	<hr/> 15	<hr/> 18

SECOND YEAR

Acct 201-202-203	Principles of Accounting	5	5	5
Bus Adm 225	Business Communications			3
Bus Adm 300	Business Machines			5
Bus Adm 317	Business Law	5		
Ec 201	Principles of Economics		5	
Pol Sc 200	Advanced Typewriting	4		
OA 412-413	Advanced Shorthand and Transcription	3	3	
OA 301	Administrative Office Practice		3	
Elective				3
		<hr/> 17	<hr/> 16	<hr/> 16

DIVISION OF EDUCATION

THELMA M. HARMOND, *Chairman*RUBY C. BLACK, *Coordinator, COP Program*

VIRGINIA R. BLALOCK

ALLEN P. HAYES

JAMES A. EATON, *Chairman,
Graduate Council, Director
Graduate Studies**HERMAN W. SARTOR, *Head
Secondary Education, Director,
Admissions*IDA J. GADSDEN, *Coordinator
Research Activities, Admissions
Acting Head, Secondary Education*

JACQUELINE W. STEPHENS

DOROTHY C. HAMILTON,
*Coordinator,
Laboratory Experiences*MAURICE S. STOKES,
Coordinator, Media

JOSEPH W. SUMNER

JAMES L. BONNETT, *Principal,
Sol C. Johnson Laboratory School*

Associate Faculty: Administrators and selected teaching personnel, cooperating school systems—Chatham-Savannah, Liberty, Tattnall, Ware, Wayne.

PURPOSES OF THE DIVISION

The Division of Education serves three major purposes: (1) in cooperation with the College-wide Teacher Education Committee and the Georgia Council on Teacher Education and Certification, it spearheads the process of continuous planning, experimentation, and evaluation of the total teacher education program; (2) it assumes leadership responsibility for the selection, guidance, and professional preparation of students who will teach in elementary and secondary schools; (3) it provides an adequate foundation for advanced study for persons who plan to continue their educational preparation beyond the baccalaureate degree.

COLLEGE-WIDE PROVISION FOR TEACHER EDUCATION

In the Division of Education there are three departments: the Department of Elementary Education, the Department of Health, Physical Education and Recreation, and the Department of Secondary Education. The preparation of teachers is, however, a College-wide commitment. Because every division and department at the College is involved in teacher education in some subject matter field, this function engages the constant interest and efforts, staff resources, and facilities of the entire institution.

*On leave, 1970-1971.

RECOMMENDATION FOR THE DEGREE AND A TEACHING CERTIFICATE

The following teacher education programs at Savannah State College have earned five-year approval from the Georgia Division of Teacher Education and Certification, State Department of Education: elementary education; secondary education, with concentrations in business education, English, French, industrial arts education, mathematics, science, social studies, Spanish, and trade and industrial education; grades 1-12, art education, health, physical education, and recreation, and music education. Each of these curriculums leads to the degree of Bachelor of Science in Education. Completion of either of these programs entitles the graduate to be recommended to the Georgia Division of Certification for the four-year professional certificate.

SUPPLEMENTAL CERTIFICATION PROGRAMS

In addition to the baccalaureate teacher education programs listed in the foregoing section, the College provides three supplementary certification programs. Descriptions of the programs follow.

EARLY CHILDHOOD EDUCATION

This program prepares and certifies graduates to teach in kindergartens, nursery schools, and in grades 1 through 3. To pursue this curriculum the student must enroll in the elementary education curriculum and follow the professional education sequence. During the junior and senior years students will take the child development sequence of courses. The teaching practicum will be done in an approved kindergarten. The required sequence follows:

Ch Dev 351	Child Development and Guidance
Ch Dev 453	Activities and Materials for Early Childhood Education
Ch Dev 454	The Child and His Family
Nutr 452	Nutrition for Children

DRIVER EDUCATION

Students enrolled in Secondary education programs and in-service secondary teachers may be recommended for supplementary certification in driver and traffic safety education upon completion of the following courses:

H Ed 300	First Aid and Safety
I A Ed 320	Introduction to Driver Education
I A Ed 310	Advanced Driver and Traffic Safety Education

THE TEACHER-LIBRARIAN PROGRAM

In view of the need to strengthen library service in the schools of Georgia, the College provides a basic training program for teacher-librarians. This is essentially an undergraduate, preprofessional sequence, designed to meet minimum requirements for certification. The work does, however, afford a foundation for further study in library science. The teacher-librarian sequence includes the following courses:

- Lib. Sc. 301—School Library Administration and Organization
- Lib. Sc. 302—Cataloging and Classification
- Lib. Sc. 401—School Library Materials
- Lib. Sc. 402—Basic Reference Sources

PURPOSES OF THE TEACHER EDUCATION PROGRAM

The teacher education program of this institution is designed to assist the prospective teacher in attainment of the following: (1) a wide general academic and cultural background; (2) specific command of subject matter competencies; (3) proficiency in the communication skills and ability to assist pupils in developing these skills; (4) functional knowledge of human behavior and of the processes involved in growth, development, and learning; (5) skill in adaptation of subject materials and activities to the needs and interests of pupils; (6) ability to further good human relationships; and (7) ability to think and plan effectively.

GENERAL PLAN OF STUDY

The first two years of teacher education are largely devoted to general education. Work in the areas of art, the biological and physical sciences, communication skills, general college and vocational orientation, mathematics, health and physical education, music, and the social sciences is included.

In the junior and senior years, the prospective teacher works in three interrelated areas: (1) the professional education sequence; (2) the subject matter concentration and (3) elective courses—which provide a second strength or minor pattern.

The quantitative requirement for graduation in this division is 195 quarter hours, including prescribed health and physical education and orientation courses.

REQUIRED TEACHER EDUCATION SEQUENCE

The following courses comprise the minimum core of professional preparation required of all students who plan to teach in the elementary or the secondary school:

Ed. 216	Introduction to Teaching
Ed. 305	Health Education and Media
Ed. 317	Human Growth and Learning
Ed. 429	Curriculum and Teaching
Ed. 430	Student Teaching

These courses are to be completed satisfactorily in the order listed. Failure to do so results in loss of credit.

When appropriate, students are grouped in Ed. 317 and Ed. 429 according to major interests and teaching levels.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

During the sophomore year, students who plan to complete a curriculum in teacher education are required to submit to the Division of Education an application for admission to the teacher education program. Applications will be screened, and applicants will be notified individually of the action taken on their applications.

The eligibility of applicants for admission to the program will be determined in accordance with the following criteria:

1. Completion of at least sixty (60) quarter hours of general education and Ed. 216.
2. Minimum grade-point average of 2.25.
3. Possession of characteristics such as physical and intellectual vigor, honesty, enthusiasm, open-mindedness, resourcefulness, and maturity.

Students must seek admission to teacher education at least the quarter preceding their expected enrollment in Ed. 317—Human Growth and Learning.

RETENTION IN THE TEACHER EDUCATION PROGRAM

After admission to the teacher education program, students will be expected to meet the following requirements:

- a. Completion of the professional education sequence in the prescribed order.
- b. Maintenance of a general cumulative average of 2.25 or better.
- c. Maintenance of at least a grade of C in each course in the major concentration and in the teacher education sequence.

Students failing to meet the foregoing requirements will be placed on probation and will be disallowed enrollment in all courses in the teacher education sequence during the period of probation.

Students who fail promptly to remove deficiencies in these requirements will be asked to withdraw from the teacher education program.

Students must also complete required English courses before admission to student teaching.

**TEACHER EDUCATION
PROGRAMS**

Elementary Education

Secondary Education

Business Education

English Education

French

Science With A Concentration in Biology

Science With A Concentration in Chemistry

Science With A Concentration in Physics

Industrial Arts Education

Mathematics Education

Social Studies

Spanish

Trade and Industrial Education

Grades 1 - 12

Art

Health and Physical Education and Recreation

Music

ELEMENTARY EDUCATION PROGRAM

Elementary Education Curriculum

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Biol 123-124	General Biology	5	5	
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art	5		
Math 107	College Algebra & Trigonometry			5
P Ed 111, 113	Seasonal Activities	1	1	1
Elective				
Soc Sc 101-102	History of Western Culture		5	5
		<hr/>	<hr/>	<hr/>
		16	16	16

SOPHOMORE YEAR

Soc Sc 201	Psychological Basis for Human Behavior	5		
Hum 141-142	Elementary French			
or				
Hum 151-152	Elementary German			
or				
Hum 161-162	Elementary Spanish	5	5	
Hum 207-208-209	World Literature	3	3	3
P Ed 211-212-213	Seasonal Activities	1	1	1
Ed 216	Introduction to Teaching		5	
Nat Sc 203	Physical Science			5
P Ed 233	Elementary Mass Activity			3
Soc Sc 111	World and Human Geography			5
		<hr/>	<hr/>	<hr/>
		14	14	17

JUNIOR YEAR

Ed 317	Human Growth and Learning	8		
H Ed 305	Total School Health	5		
Hist 300 ¹	History of the United States and Georgia	5		
Mus Ed 300	Fundamentals of Music Elementary Grades		3	
Pol Sc 200	Government		5	
Ed 347	Audio-Visual Materials and Methods		5	
Elective ²			5	
Mus Ed 301	Elementary School Music Methods			3
Phil 300 or 301 or 302	Introduction to Logic or Ethics			5
Electives				10
		<hr/>	<hr/>	<hr/>
		18	18	18

¹If the student has satisfied the history requirement, he should take an additional elective.

²Early childhood education majors will elect the child development sequence.

SENIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ed 341	Seminar in Elementary School Curriculum	15		
Ed 429	Curriculum and Teaching		8	
Art Ed 401	Public School Art		5	
Elective			5	
Ed 430	Student Teaching			15
		<u>15</u>	<u>18</u>	<u>15</u>

Total quarter hours required for graduation

195

SECONDARY EDUCATION PROGRAMS

Business Teachers Curriculum

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Hum 107-108-109	English Communicative Skills	5	5	5
Soc Sc 101 or 102	History of Western Culture	5		
Math 107	College Algebra and Trig		5	
Hum 131	Introduction to Music and Art			5
Ed 100	Freshman Lectures	(R)		
PED 111-113	Seasonal Activities / or Swimming	1		1
Biol 123-124	General Biology	5	5	
Electives:	BAD 103 Business Mathematics			5
	BAD 105 Intro to Business Org.		3	
		<u>16</u>	<u>18</u>	<u>16</u>

SOPHOMORE YEAR

ACC 201-202	Principles of Accounting	5	5	
ECO 201-202	Principles of Economics	5	5	
Hum 207-208-209	World Literature	3	3	3
OAD 201-202-203	Typewriting	2	2	2
Soc Sc 201	Psych. Basis for Human Behavior			5
Pol Sci 200	Government			5
PED 211-212-213	Seasonal Activities or/ Swimming	1	1	1
		<u>16</u>	<u>16</u>	<u>16</u>

Option 1. — Comprehensive

JUNIOR YEAR

EDN 216	Introduction to Teaching		5	
EDN 317	Human Growth and Development			8
EDN 305	Total Sch Health and Media			5
BAD 317	Business Law	5		
BAD 325	Principles of Marketing		5	
OAD 300	Business Machines	5		
OAD 311-312-313	Shorthand & Transcription	3	3	3
OAD 301	Administrative Office Practice		3	
BAD 225	Business Communications	3		
		<u>16</u>	<u>16</u>	<u>16</u>

SENIOR YEAR

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
EDN 441	Student Teaching & Seminar		15	
EDN 429	Curriculum	8		
BED 350	Methods of Tchg. Bus. Subjs.	5		
BAD 415	Business Organization & Mgmt	5		
ECO 331	Business & Eco Statistics			5
His 300	History of U.S. & Ga.			5
Phil 301	Logic			5
		<u>18</u>	<u>15</u>	<u>15</u>

Option 2. Bookkeeping and Business Management

JUNIOR YEAR

EDN 216	Introduction to Teaching	5		
EDN 317	Human Growth and Development		8	
BED 350	Methods of Tchg. Bus. Subj.			5
BAD 317	Business Law	5		
BAD 300	Business Machines			5
BAD 325	Principles of Marketing		5	
ACC 203	Principles of Accounting			5
BAD 225	Business Communications	3		
OAD 401	Modern Data Processing Methods		3	
ECO 323	Money, Credit & Banking	5		
		<u>18</u>	<u>16</u>	<u>15</u>

SENIOR YEAR

EDN 429	Curriculum		8	
EDN 441	Student Teaching & Seminar			15
EDN 305	Total School Health & Media		5	
ECO 331	Business & Economic Statistics	5		
BAD 415	Business Organization & Mgmt.	5		
His 300	History of U.S. & Ga.	5		
Phil 301	Logic		5	
		<u>15</u>	<u>18</u>	<u>15</u>

Option 3. Business Data Processing and Accounting. A student may qualify for this new area of certification by completing 198 quarter hours instead of 195; and in lieu of Econ 202; Econ 323; Phil 301; OAD 202-203; and BED 350; substitute the following courses:

Math 306-307—Computer Programming	10
OAD 402—IBM Key punch	2
BED 450—Voc. Dev. in Tch. Data Proc	5
T & I 205 or 310—History & Philosophy of Vocational Education	5
ACC 440—Business Data Proc. Systems	5

English Teachers Curriculum

FRESHMAN YEAR

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
Biol 123-124	General Biology	5	5	
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art	5		
Math 107	College Algebra & Trigonometry			5
P Ed 111, 113	Seasonal Activities	1		1
Soc Sc 101-102	History of Western Culture		5	5
		<hr/>	<hr/>	<hr/>
		16	15	16

SOPHOMORE YEAR

Eng 204	Advanced Composition			5
Hum 207-208-209	World Literature	3	3	3
Hum 141-142-143	Elementary French	5	5	5
or				
Hum 151-152-153	Elementary German			
or				
Hum 161-162-163	Elementary Spanish			
Nat Sc 203	Physical Science			5
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 111	World and Human Geography	5		
Soc Sc 201	Psychological Basis for Human Behavior		5	
		<hr/>	<hr/>	<hr/>
		14	14	19

JUNIOR YEAR

Ed 216	Introduction to Teaching	5		
Ed 317	Human Growth and Learning		8	
Eng 306	Contemporary Prose and Poetry			5
Eng 320	Introduction to the English Language			5
Eng 210 or 211	Survey of Eng. Lit.		5	
Hist 300 ¹	History of the United States and Georgia	5		
Pol Sc 200	Government	5		
Eng 220 or 221	Survey of Am. Lit. (Including 1 genre)			
Electives				8
Eng 450, 451, or 452	Seminar in English	1	1	
		<hr/>	<hr/>	<hr/>
		16	19	18

SENIOR YEAR

Ed 429	Curriculum and Teaching	8		
Ed 430	Student Teaching			15
Eng 401	Shakespeare		5	
Eng 413	Advanced Speech	5		
Phil 300	Introduction to Philosophy	5		
Electives			10	
		<hr/>	<hr/>	<hr/>
		18	15	15
Total quarter hours required for graduation				195

¹If the student has satisfied the history requirement through examination, he should take an elective.

French Teachers Curriculum

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Biol 123-124	General Biology	5	5	
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art			5
Hum 141-142-143	Elementary French	5	5	5
P Ed 111-113	Seasonal Activities	1		1
		<hr/> 16	<hr/> 15	<hr/> 16

SOPHOMORE YEAR

French 241-242	Intermediate French	5	5	
French 243	French Conversation and Composition			5
Hum 207-208-209	World Literature	3	3	3
Math 107	College Algebra and Trigonometry			5
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 101-102	History of Western Culture	5	5	
Soc Sc 111	World and Human Geography			5
		<hr/> 14	<hr/> 14	<hr/> 19

JUNIOR YEAR

Ed 216	Introduction to Teaching		5	
Ed 317	Human Growth and Learning			8
French 341-342	Survey of French Literature	3	3	
French 343	French Civilization		4	
French 344	Oral Communication			5
H Ed 305	The Total School Health Program			5
Nat Sc 203	Physical Science	5		
Soc Sc 201	Psychological Basis for Human Behavior	5		
Pol Sc 200	Government		5	
Elective	Junior or Senior Course	5		
		<hr/> 18	<hr/> 17	<hr/> 18

SENIOR YEAR

Ed 429	Curriculum and Teaching	8		
Ed 430 ¹	Student Teaching			15
French 444	Literature of the XXth Century	5		
French 441 or 442	French Elective		5	
Hist 300 ²	History of the U.S. and Georgia		5	
Phil 300 or 301 or 302	Introduction, Logic or Ethics	5		
Elective	Junior or Senior Course		5	
		<hr/> 18	<hr/> 15	<hr/> 15

¹Before taking this course, the student participates in a non-credit seminar in Methods of Teaching Foreign Languages.

²If the student has satisfied the history requirement through examination, he should take a junior or senior elective.

Total quantitative requirement for graduation: 195 quarter hours.

Curriculum for General Science Majors
With A Concentration in Biology
1971-72

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Chem 101-102-103	General Inorganic	5	5	5
Ed 100	Freshman Lecture	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music & Art		5	
H Ed 112	Personal Health		1	
P Ed 111-113	Seasonal Activities	1		1
So Sc 102	History of Western Culture	5		
So Sc 111	Geography			5
		<hr/> 16	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Biol 123-124	General Biology	5	5	
Biol 127	Vertebrate Zoology			5
Biol 204-205	General Botany		5	5
Ed 216	Introduction to Teaching	5		
Hum 207-208-209	World Literature	3	3	3
Math 107-108	College Algebra & Trigonometry	5	5	
P Ed 211-212-213	Seasonal Activities	1	1	1
So Sc 201	Psychological Basis for Human Behavior			5
		<hr/> 19	<hr/> 19	<hr/> 19

JUNIOR YEAR

Biol 303	Vertebrate Embryology			5
Chem 307	Organic Chemistry	5		
Chem 404	Biochemistry		5	
Ed 317	Human Growth & Learning			8
H Ed 305	Total School Health Program	5		
Hist 300	History of Georgia & U.S.		5	
Phys 301-302-303	General Physics	5	5	5
		<hr/> 15	<hr/> 15	<hr/> 18

SENIOR YEAR

Biol 306	General Bacteriology		5	
Biol 307	Anatomy & Physiology	5		
Earth Sc 221	Earth Science	5		
Ed 429	Curriculum & Teaching		8	
Ed 430	Student Teaching			15
Electives		4		
		<hr/> 14	<hr/> 13	<hr/> 15

Total quarter hours required for
graduation

195

Curriculum for General Science Majors
With A Concentration in Chemistry
1971-72

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Biol 125	Introduction to Biological Sciences	5		
Biol 126	Invertebrate Zoology		5	
Biol 127	Vertebrate Zoology			5
Ed 100	Freshman Lecture	(R)		
H Ed 112	Personal Health		1	
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music & Art		5	
P Ed 111-113	Seasonal Activities	1		1
So Sc 102	History of Western Culture	5		
So Sc 111	Geography			5
		<hr/> 16	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Biol 204	General Botany	5		
Chem 101-102-103	General Inorganic	5	5	5
Ed 216	Introduction to Teaching			5
Hum 207-208-209	World Literature	3	3	3
Hist 300	History of Georgia & U.S.			5
Math 107-108	College Algebra & Trigonometry	5	5	
P Ed 211-212-213	Seasonal Activities	1	1	1
So Sc 201	Psychological Basis for Human Behavior		5	
		<hr/> 19	<hr/> 19	<hr/> 19

JUNIOR YEAR

Chem 307-308	Organic Chemistry	5		5
Chem 309	Qualitative Organic Analysis		5	
Chem 404	Biochemistry		5	
Ed 317	Human Growth & Learning			8
H Ed 305	Total School Health Program	5		
Phys 301-302	General Physics	5	5	
Electives				5
		<hr/> 15	<hr/> 15	<hr/> 18

SENIOR YEAR

Biol 307	Anatomy & Physiology	5		
Chem 303-304	Analytical Chemistry	5	5	
Earth Sc 221	Earth Science	5		
Ed 429	Curriculum & Teaching		8	
Ed 430	Student Teaching			15
		<hr/> 15	<hr/> 13	<hr/> 15

Total quarter hours required for
graduation

196

Curriculum for General Science Majors
With A Concentration in Physics
1971-72

FRESHMAN YEAR

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
Biol 125	Introduction to Biological Sciences	5		
*Math 107	College Algebra & Trigonometry		5	
*Math 108	College Algebra & Trigonometry			5
Ed 100	Freshman Lecture	(R)		
H Ed 112	Personal Health		1	
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music & Art		5	
P Ed 111-113	Seasonal Activities	1		1
So Sc 102	History of Western Culture	5		
So Sc 111	Geography			5
		<hr/>	<hr/>	<hr/>
		16	16	16

SOPHOMORE YEAR

Biol 204	General Botany	5		
Chem 101-102-103	General Inorganic	5	5	5
Ed 216	Introduction to Teaching			5
Hum 207-208-209	World Literature	3	3	3
Hist 300	History of Georgia & U.S.			5
*Math 211-212	Analysis	5	5	
P Ed 211-212-213	Seasonal Activities	1	1	1
So Sc 201	Psychological Basis for Human Behavior		5	
		<hr/>	<hr/>	<hr/>
		19	19	19

JUNIOR YEAR

Chem 307	Organic Chemistry	5		
Ed 317	Human Growth & Learning			8
H Ed 305	Total School Health Program	5		
Phys 300	Mathematical Physics		5	
Phys 301-302-303	General Physics	5	5	5
Phys 306	Advance Heat & Mechanics			5
Electives			5	
		<hr/>	<hr/>	<hr/>
		15	15	18

SENIOR YEAR

*Math 404	Differential Equations	5		
Earth Sc 221	Earth Science	5		
Ed 429	Curriculum & Teaching		8	
Ed 430	Student Teaching			15
Phys 307	Illumination & Optics	5		
Phys 400	Modern Physics		5	
		<hr/>	<hr/>	<hr/>
		15	13	15

Total quarter hours required for
graduation

196

*Student may skip either or both courses in this sequence, upon presentation of evidence of recommendation.

INDUSTRIAL ARTS EDUCATION ARTS CURRICULUM

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communication Skills	5	5	5
Hum 131	Introduction to Music & Art			5
Math 107-108	College Algebra & Trigonometry	5	5	
Mech Tech 101-102-103	Engineering Drawing	5	5	5
P Ed 111, 113	Seasonal Activities	1		1
		<hr/> 16	<hr/> 15	<hr/> 16

SOPHOMORE YEAR

Chem 101-102 or Bio 123-124	General Organic Chemistry			
Ec 201	General Biology	5	5	
IA Ed 201	Principles of Economics			5
IA Ed 202	Wood Processing I	5		
P Ed 211-212-213	Wood Processing II		5	
Soc Sc 101-102	Seasonal Activities	1	1	1
Soc Sc 201	History of Western Culture	5	5	
	Psychological Basis for Human Behavior			5
IA Ed 203	Industrial Arts Design			5
		<hr/> 16	<hr/> 16	<hr/> 16

JUNIOR YEAR

Ed 216	Introduction to Teaching	5		
Ed 317	Human Growth and Learning			8
Elecs Tech 322	Technical Sciences Seminar		1	
IA Ed 301	Architectural Drafting	5		
IA Ed 302	Power Mechanics		5	
Mech Tech 312-313	Metal Processing I-II		5	5
Physics 201	General Physics	5		
IA Ed 312	General Electricity		5	
Elective				6
		<hr/> 15	<hr/> 16	<hr/> 19

SENIOR YEAR

Ed 430	Student Teaching			15
Hist 300	History of the U.S. & Ga.	5		
IA Ed 411	Curriculum Building and Shop Organization in Industrial Arts Education	5		
IA Ed 413	Electrical Motors			5
IA Ed 421	Methods of Teaching Industrial Arts	5		
Pol Sc 200	Government			5
IA Ed 401	Industrial Arts Electronics	5		
Elective				5
		<hr/> 20		<hr/> 30

Total quarter hours required for
graduation

195

Mathematics Teachers Curriculum

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Biol 123	General Biology			5
Ed 100	Freshman Lectures	(R)		
H Ed 112	Personal Health		1	
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art			5
Math 107-108	College Algebra & Trigonometry	5	5	
P Ed 111, 113	Seasonal Activities	1		1
Soc Sc 101-102	History of Western Culture	5	5	
		<hr/> 16	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Ec 201	Principles of Economics		5	
Hum 141-142-143 or Hum 151-152-153 or Hum 161-162-163	Elementary French	5	5	5
Hum 161-162-163	Elementary German			
Hum 207-208-209	World Literature	3	3	3
Math 212-213-214	Analysis I-II-III	5	5	5
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 201	Psychological Basis for Human Behavior			5
Electives		2		
		<hr/> 16	<hr/> 19	<hr/> 19

JUNIOR YEAR

Ed 216	Introduction to Teaching		5	
Hist 300 ¹	History of the United States and Georgia			5
Math 217	Introduction to Probability and Statistics	5		
Math 315-A	Modern Algebra I	5		
Math 315-B	Modern Algebra II		5	
Phys 201-202-203	General Physics	5	5	5
Pol Sc 200	Government			5
		<hr/> 15	<hr/> 15	<hr/> 15

SENIOR YEAR

Ed 317	Human Growth and Learning	8		
Ed 429	Curriculum and Teaching		8	
Ed 430	Student Teaching			15
Math 321	Introduction to Higher Geometry	5		
Math 411	Advanced Calculus		5	
Electives	(Major or Minor)	5	2	
		<hr/> 18	<hr/> 15	<hr/> 15

Total quarter hours required for graduation

195

¹If the student has satisfied the history requirement through examination, he should take an elective.

Curriculum for Teachers of Social Studies

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ed 100	Freshman Lectures	(R)		
Biol 123-124	General Biology	5	5	
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art			5
P Ed 111, 113	Seasonal Activities	1	1	
Soc Sc 101-102	History of Western Culture	5	5	
Soc Sc 111	World and Human Geography			5
		<hr/>	<hr/>	<hr/>
		16	16	15

SOPHOMORE YEAR

Hum 141-142-143 or Hum 151-152-153 or Hum 161-162-163	Elementary French	5	5	5
Hum 207-208-209	Elementary German			
Math 107	Elementary Spanish			
Nat Sc 203	World Literature	3	3	3
P Ed 211-212-213	College Algebra & Trigonometry	5		
Soc Sc 201	Physical Science			5
	Seasonal Activities	1	1	1
	Psychological Basis for Human Behavior		5	
Pol Sc 200	Government			5
		<hr/>	<hr/>	<hr/>
		14	14	19

JUNIOR YEAR

Ec 201	Principles of Economics	5		
Ed 216	Introduction to Teaching		5	
Ed 317	Human Growth and Learning			8
Hist 301-302-303	History of the United States	5	5	5
Hist 331-332	History of Europe		5	5
Soc 301	Introduction to Sociology	5		
		<hr/>	<hr/>	<hr/>
		15	15	18

SENIOR YEAR

Ed 429	Curriculum and Teaching	8		
Ed 430	Student Teaching			15
H Ed 305	The Total School Health Program	5		
Hist 408	History of Russia since 1815	5		
Hist 415	History of the Far East			5
Soc Sc 420	Democracy versus Communism			5
Electives				10
		<hr/>	<hr/>	<hr/>
		18		35
	Total quarter hours required for graduation			195

SPANISH TEACHERS CURRICULUM

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Biol 123-124	General Biology	5	5	
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art			5
Hum 161-162-163	Elementary Spanish	5	5	5
P Ed 111-113	Seasonal Activities	1		1
		<hr/> 16	<hr/> 15	<hr/> 16

SOPHOMORE YEAR

Hum 207-208-209	World Literature	3	3	3
Math 107	College Algebra and Trigonometry			5
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 101-102	History of Western Culture	5	5	
Soc Sc 111	World and Human Geography			5
Spanish 261-262	Intermediate Spanish	5	5	
Spanish 263	Spanish Conversation and Composition			5
		<hr/> 14	<hr/> 14	<hr/> 19

JUNIOR YEAR

Ed 216	Introduction to Teaching		5	
Ed 317	Human Growth and Learning			8
H Ed 305	The Total School Health Program			5
Nat Sc 203	Physical Science	5		
Soc Sc 201	Psychological Basis for Human Behavior	5		
Pol Sc 200	Government		5	
Spanish 361-362	Survey of Spanish Literature	3	3	
Spanish 363	Spanish Civilization		4	
Spanish 364	Oral Communication			5
Elective	Junior or Senior Elective	5		
		<hr/> 18	<hr/> 17	<hr/> 18

SENIOR YEAR

Ed 429	Curriculum and Teaching	8		
Ed 430 ¹	Student Teaching			15
Hist 300 ²	History of the U.S. and Georgia		5	
Phil 300 or 301				
or 302	Introduction, Logic or Ethics	5		
Spanish 463	Spanish-American Literature	5		
Spanish 461 or 462	Spanish Elective		5	
Elective	Junior or Senior Course		5	
		<hr/> 18	<hr/> 15	<hr/> 15

¹Before taking this course, the student participates in a non-credit seminar in Methods of Teaching Foreign Languages.

²If the student has satisfied the history requirement through examination, he should take a junior or senior elective.

Total quantitative requirement for graduation: 195 quarter hours.

Trade and Industrial Education Curriculum

(This program is open to graduates of area vocational-technical schools and persons coming out of industry with acceptable training and experience in the occupations they plan to teach.)

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Fall</i>	<i>Winter</i>	<i>Spring</i>	<i>Summer</i>
Ed 100	Freshman Lectures	(R)			
Hum 131	Introduction to Music and Art			5	
Math 107-108	College Algebra & Trigonometry	5	5		
Hum 107-108-109	English Communicative Skills	5	5	5	
Chem 101-102	General Inorganic Chemistry				
or					
Biol 123-124	General Biology	5	5		
Phy Sc 203	Physical Science			5	
P Ed 111,113,211	Seasonal Activities	1	1	1	
TIED 100	Cooperative Industrial Work Experience				5
		<u>16</u>	<u>16</u>	<u>16</u>	<u>5</u>

SOPHOMORE YEAR

Ec 201	Principles of Economics	5			
Ed 216	Introduction to Teaching			5	
Soc Sc 201	Psychological Basis for Human Behavior	5			
P Ed 212-213	Seasonal Activities	1		1	
Soc Sc 101-102	History of Western Culture	5		5	
Pol Sc 200	Government			5	
TIED 200-210	Cooperative Industrial Work Experience		5		5
		<u>16</u>	<u>5</u>	<u>16</u>	<u>5</u>

JUNIOR YEAR

Ed 317	Human Growth and Learning	8			
TIED 301	History of Vocational Education	5			
TIED 302	Industrial Education Curriculum		5		
TIED 303	Shop Management			5	
Ec 302	Current Economic Problems		5		
Hist 300	History of the U.S. & Ga.		5		
TIED 311-313	Occupational Competency Exam.				
Technical	or				
Electives		5		5	
Elective				5	
TIED 300	Cooperative Industrial Work Experience				5
		<u>18</u>	<u>15</u>	<u>15</u>	<u>5</u>

SENIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
TIEd 421	Methods of Teaching Industrial Subjects	5		
Ec 401	Labor Problems	5		
Bus Adm 415	Business Organization and Management			5
Ed 441	Directed Student Teaching in Secondary Schools		10	
Ed 446	Seminar for Teachers in the Secondary Schools		5	
TIEd 401-402-403	Occupational Competency Examination or			
Technical Electives		5		10
Elective		2		
		<u>17</u>	<u>15</u>	<u>15</u>

Total quarter hours required for graduation

195

Cooperative Industrial Work Experience

(Persons with sufficient amount of work experience for professional certification in this teaching field may take technical courses in lieu of this requirement.)

Technical Electives

(Graduates of vocational-technical schools and others with competency in an occupation of this teaching field may receive credit for technical electives by successfully passing occupational competency examinations.)

PROGRAMS FOR TEACHERS OF GRADES 1-12

Art Education Curriculum

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Art 103	Basic Art	5		
Art 108	Drawing		4	
Art 116	Crafts I			3
Biol 123-124	General Biology		5	5
Ed 100	Freshman Lectures	(R)		
P Ed 321	Beginner's Swimming	1		
Hum 107-108-109	English Communicative Skills	5	5	3
Math 107	College Algebra & Trigonometry	5		
P Ed 111-113	Seasonal Activities	1		1
Soc Sc 101-102	History of Western Culture		5	5
		<hr/> 17	<hr/> 19	<hr/> 17

SOPHOMORE YEAR

Art 217	Crafts II	3		
Art 238-239	Ceramics I & II		3	3
Art 250	Introduction to World Art			3
Hum 141-142-143	Elementary French	5	5	5
or				
Hum 151-152-153	Elementary German			
or				
Hum 161-162-163	Elementary Spanish			
Hum 207-208-209	World Literature	3	3	3
Nat Sc 203	Physical Science	5		
P Ed 211-212-213	Seasonal Activities	1	1	1
Pol Sc 200	Government		5	
		<hr/> 17	<hr/> 17	<hr/> 15

JUNIOR YEAR

Art 322	Painting I		5	
Art 323	Painting II			5
Art 333	Sculpture		5	
Art Ed 304	Art Education	4		
Ed 216	Introduction to Teaching		5	
Ed 317	Human Growth and Learning			8
H Ed 305	The Total School Health Program			5
Hist 300 ¹	History of the U.S. & Ga.	5		
Soc Sc 201	Psychological Basis for Human Behavior	5		
		<hr/> 14	<hr/> 15	<hr/> 18

¹If the student has satisfied the history requirement through examination, he should take an elective.

Art Education Curriculum—Continued

SENIOR YEAR

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
Art 430	Printmaking	4		
Art 450	History of Art I	3		
Art 451	History of Art II		3	
Art Ed 409	Seminar in Art Problems		3	
Ed 429	Curriculum and Teaching		8	
Ed 430	Student Teaching			15
Electives	Junior or senior courses	10		
		<hr/>	<hr/>	<hr/>
		17	14	15

Total quarter hours required for graduation

195

MINOR IN ART EDUCATION

Art 103	Basic Art		5	
Art 108	Drawing		4	
Art 116	Crafts I		3	
Art 238	Ceramics I		3	
Art 322 or	Painting I			
Art 333	Sculpture		5	
Art 450	History of Art I		3	
Art Ed 304	Art Education		4	
			<hr/>	
	Total		27	

Music Education Curriculum

FRESHMAN YEAR

Biol 123-124	General Biology		5	5
Ed 100	Freshman Lectures	(R)		
H Ed 112	Personal Health		1	
Hum 107-108-109	English Communicative Skills	5	5	5
Math 107	College Algebra & Trigonometry	5		
Mus 100'	Band, Choral Society, or Men's Glee Club	1	1	1
Mus 101-102-103	Fundamentals of Instruments/Voice	1	1	1
Mus 104-105-106	Applied Major Area	1	1	1
Mus 111-112-113	Theory I (Ear-training & Sight-singing)	3	3	3
P Ed 111, 113	Seasonal Activities	1		1
		<hr/>	<hr/>	<hr/>
		17	17	17

Music Education Curriculum—Continued

SOPHOMORE YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Hum 141-142-143	Elementary French	5	5	5
Music 200 ¹	Band, Choral Society, or Men's Glee Club	1	1	
Mus 201-202-203	Intermediate Instruments/ Voice	1	1	1
Mus 204-205-206	Applied Major Area	1	1	1
Mus 211-212-213	Theory II (Harmony)	3	3	3
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 102	History of Western Culture		5	
Soc Sc 201	Psychological Basis for Human Behavior			5
Pol Sc 200	Government	5		
		<u>17</u>	<u>17</u>	<u>16</u>

JUNIOR YEAR

Ed 216	Introduction to Teaching	5		
Ed 317	Human Growth and Learning		8	
H Ed 305	The Total School Health Program		5	
Hist 300 ²	History of the U.S. & Ga.			5
Mus 300 ¹	Band, Choral Society or Men's Glee Club			
Mus 301-302-303	Advanced Instruments/ Voice	1	1	1
Mus 304-305-306	Applied Major Area	1	1	1
Mus 307	Orchestration and Instrumentation	5		
Mus 311	Theory II (Form and Analysis)			5
Mus 314-315	History and Literature of Music	5	5	
Mus Ed 308	High School Music			4
		<u>17</u>	<u>20</u>	<u>16</u>

SENIOR YEAR

Mus 400 ¹	Band, Choral Society or Men's Glee Club			
Ed 429	Curriculum and Teaching		8	
Ed 430	Student Teaching			15
Mus 401-402	Advanced Instruments/ Voice	1	1	
Mus 404-405	Applied Major Area	1	1	
Mus 407-408	Conducting (Instrumental/ Choral)	3	3	
Mus 411	Theory IV (Counterpoint and Composition)	5		
Electives ³		3		
		<u>13</u>	<u>13</u>	<u>15</u>

Total quarter hours required for graduation

195

¹Music 100-200-300-400—Band, Choral Society, Glee Club—may be taken for credit on an elective basis up to a maximum of five quarter hours for majors and non-majors. Participation by majors, however, is required with or without credit, as long as they are enrolled in the program.

²If the student has satisfied the history requirement through examination, he should take an elective.

³If five hours of electives have not been taken in Music 100-200, two additional hours in the fall quarter and three in the winter quarter must be taken during the Senior year.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Raymond W. Hopson, *Head*

Geraldine H. Abernathy
Frank Ellis, Jr.
Albert E. Frazier

Ella W. Fisher
John H. Myles
Richard K. Washington

The essential aim of the Department of Health, Physical Education, and Recreation is to provide professional training for pre-service and in-service teachers of health, physical education, and recreation in the elementary and secondary schools. The department encourages only potentially qualified students to undertake professional training in this field. It seeks also to provide instruction for all students in the basic principles of health and recreational activity needed for wholesome living.

In pursuance of the foregoing aims this department provides a four-fold program of instruction. For students who plan to become professional workers in the field of health, physical education, and recreation—either in schools or in other agencies—the department offers a sequence of specialized training leading to the degree of Bachelor of Science in Education, with a concentration in health, physical education, and recreation. In addition, it provides basic training in supervision of one or more phases of a comprehensive health, physical education, and recreation program in the schools of Georgia for all students enrolled in teacher education curricula at Savannah State College. This phase of the work is provided either in selected specialized courses or in a minor sequence.

The department provides instruction in the fundamental concepts and activities of health, physical education, and recreation as an essential phase of general education for all students enrolled at the college. It serves the college community through instruction and leadership in the intramural program. The intramural program is, in effect, a laboratory in which students enjoy practicing the skills learned in general service courses and compete with their peers.

PHYSICAL EDUCATION REQUIREMENT FOR ALL FRESHMEN AND SOPHOMORES

During the freshman and sophomore years all students are required to participate in health and physical education activities. The satisfactory completion of this work is a prerequisite for graduation. Within the six quarters of work, one quarter is devoted to personal health; and five are seasonal activities, including indoor and outdoor games, gymnastics, etc.

All students must wear the regulation uniform at each class meeting, or credit will not be given.

Health, Physical Education, and Recreation Curriculum

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art	5		
Math 107	College Algebra & Trigonometry	5		
P Ed 111, 113	Seasonal Activities	1	1	
Soc Sc 101-102	History of Western Culture		5	5
Soc Sc 111	World and Human Geography		5	
Soc Sc 201	Psychological Basis for Human Behavior			5
		<hr/>	<hr/>	<hr/>
		16	16	15

SOPHOMORE YEAR

Biol 123	General Biology		5	
Chem 101-102	General Inorganic Chemistry	5	5	
Ed 216	Introduction to Teaching			5
H Ed 300	First Aid and Safety	5		
Hum 207-208-209	World Literature	3	3	3
P Ed 211-212-213	Seasonal Activities	1	1	1
P Ed 233	Elementary Mass Activity	3		
P Ed 235	Introduction to Health, Physical Education, and Recreation		5	
Phil 300 or 301 or 302	Introduction, Logic or Ethics			5
Pol Sc 200	Government			5
		<hr/>	<hr/>	<hr/>
		17	19	19

JUNIOR YEAR

Ed 317	Human Growth and Learning		8	
Ed 429	Curriculum and Teaching			8
H Ed 305	The Total School Health Program		5	
P Ed 301	Physiology of Muscular Activity			5
P Ed 302	Social and Square Dancing			2
P Ed 304	Applied Anatomy	5		
P Ed 305	Corrective Physical Education		3	
P Ed 310	Compendium in Physical Education	1		
P Ed 316	Intramural and Recreational Activities	5		
P Ed 450	Legal Aspects of Physical Education and Athletics	5		
		<hr/>	<hr/>	<hr/>
		16	16	15

¹If the student has satisfied the history requirement through examination, he should take an elective.

Health, Physical Education, and Recreation
Curriculum—Continued

SENIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ed 430	Student Teaching			15
Hist 300 ¹	History of the U.S. & Ga.	5		
P Ed 317	Community Play, Recreation, and Camp Counselling		5	
P Ed 403	Tests and Measurements in Physical Education		5	
P Ed 410-411	Coaching and Officiating I-II	3	3	
P Ed 415	Organization and Administration of Health, Physical Education, and Recreation	5		
Electives		2	2	1
		<u>15</u>	<u>15</u>	<u>16</u>

Total quarter hours required for graduation 195

MINOR IN HEALTH, PHYSICAL EDUCATION, AND RECREATION

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours</i>
H Ed 305	The Total School Health Program	5
P Ed 233	Elementary Mass Activity	3
P Ed 235	Introduction to Health, Physical Education, and Recreation	5
P Ed 301	Physiology of Muscular Activity	5
P Ed 316	Intramural and Recreational Activities	5
P Ed 415	Organization and Administration of Health, Physical Education, and Recreation	5
P Ed 450	Legal Aspects of Physical Education and Athletics	5
	Total	<u>33</u>

DIVISION OF HUMANITIES

HOWARD M. JASON, *Chairman*

PHILOSOPHY AND PURPOSES

The humanities embrace those skills, understandings, and appreciations which make for a well-rounded life. The humanities are concerned with humane values, exalting the life of man. Thus, the impact of mind upon mind—great minds of the past upon sensitive minds of the present—constantly points the way to the good life.

Specifically, the Division of Humanities provides opportunity for study and analyses of the language, literature, art, and music of the world. The study and analyses are aimed at motivating the student to expand his aesthetic horizon, to enliven his spirit of inventiveness and individuality, and to acquire a finer appreciation and understanding of the human spirit.

This division comprises the Department of English, the Department of Fine Arts, and the Department of Modern Languages.

DEPARTMENT OF ENGLISH

HOWARD M. JASON, *Acting Head*

Julia H. Bennett
Arthur L. Brentson
Norman Elmore, Jr.
J. Randolph Fisher
Robert Holt
Wilda G. Johnson
Abbie W. Jordan

Sister Mary Julie Maggioni
Yvonne H. Mathis
Luetta C. Milledge*
Louise L. Owens
Frank H. Rand
William A. Stephenson
Robert L. Stevenson

Alma Stone Williams

The aims of the Department of English are (1) to develop proficiency in oral and written language; (2) to instill an appreciation for good literature; (3) to encourage a deep perceptiveness of mind in order to make it more flexible and inquisitive; and (4) to reveal the operation of the human spirit in our civilization. The ultimate aim of the department is a quality of mind, rather than a mere accumulation of information.

The student who has successfully pursued English as his major subject is expected to demonstrate the ability to distinguish between that which is genuinely great and that which is less great in literature and human values. He should have more than a passing acquaintance with a representative number of masterpieces in English, American, and world literature. He should have adequate facility, taste, and understanding in expression; and he should have knowledge of principal literary genres, periods and authors.

*On leave 1968-69, 1969-70, 1970-71.

PLAN OF STUDY

All freshman students are given a placement test in English. They are then grouped on the basis of achievement on the test. Superior students may be permitted to register in Humanities 108. Others are assigned to appropriate sections of Humanities 106 or 107.

THE ENGLISH MAJOR

A non-teaching major in English must include two period courses (301, 303, 305, or 306); *one* course in American literature (220 or 221); *one* genre course (403, 405, or 406); *one* course in world literature (331 or 332); *one* course in English literature (210 or 211), *three* seminars in English and *one* course in linguistics.

A student majoring in English language and literature will complete at least fifty-four quarter hours in language, composition, literature, and speech, in addition to freshman English.

An English major who expects to teach English must take *one* period course, *one* course in American literature, *one* course in English literature, *one* course in linguistics, *one* genre course, *one* course in world literature for majors, and *two* seminars in English, and *two* electives in English, in addition to freshman English, advanced composition and speech.

THE ENGLISH MINOR

A minor in English consists of thirty hours *beyond* Humanities 107, 108, and 109. It must include *one* course in American literature, *one* course in English literature, *one* genre course, and *one* seminar in English.

Curriculum for Majors in English Language and Literature

FRESHMAN YEAR

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
Biol 123-124	General Biology	5	5	
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Art and Music	5		
Math 107	College Algebra & Trigonometry			5
P Ed 111, 113	Seasonal Activities	1		1
Soc Sc 101-102	History of Western Culture		5	5
		<hr/>	<hr/>	<hr/>
		16	15	16

Curriculum for Majors in English Language and Literature—Continued

SOPHOMORE YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Eng 204	Advanced Composition			5
Hum 207-208-209	World Literature	3	3	3
Hum 141-142-143	Elementary French			
or				
Hum 151-152-153	Elementary German			
or				
Hum 161-162-163	Elementary Spanish	5	5	5
Nat Sc 203	Physical Science			5
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 111	World and Human Geography	5		
Soc Sc 201	Psychological Basis for Human Behavior		5	
		<hr/>	<hr/>	<hr/>
		14	14	19

JUNIOR YEAR

Eng 301	English Literature of 17th Century			
or	or			
Eng 303	English Romantic Movement			
or	or			
Eng 305	Victorian Prose and Poetry			5
Eng 306	Contemporary Prose and Poetry			5
Eng 320	Introduction to the English Language			5
Eng 210 or 211	Survey of Eng. Lit.		5	
Hist 300 ¹	History of the U.S. & Ga.	5		
Pol Sc 200	Government	5		
Eng 450	Seminar in English	1		
Eng 220 or 221	Survey of Am. Lit.		5	
Minor		5	5	4
Elective	(Genre Course)		4	
		<hr/>	<hr/>	<hr/>
		16	19	19

SENIOR YEAR

Eng 401	Shakespeare			5
Eng 413	Advanced Speech	5		
Eng 451-452	Seminar in English		1	1
Phil 300 or 301				
or 302	Introduction, Logic or Ethics	5		
Eng	Elective			5
Minor		5	5	5
Electives			10	
		<hr/>	<hr/>	<hr/>
		15	16	16

Total quarter hours required for graduation

195

¹If the student has satisfied the history requirement through examination, he should take an elective.

DEPARTMENT OF FINE ARTS

COLERIDGE A. BRAITHWAITE, *Head*

Arthur L. Britt
Samuel A. Gill
Clyde E. Howard

Farnese H. Lumpkin
Christine E. Oliver
James Thompson, Jr.

Susan P. Waters

The Department of Fine Arts encourages students to find in the several areas of music and the graphic and plastic arts an appreciation of aesthetic values in general education and opportunities for the development of their special interests and abilities in these fields. In conformance with the stated philosophy of the college, the department stresses specific objectives in the areas of music and art.

GRAPHIC AND PLASTIC ARTS

The courses in graphic and plastic arts are intended to:

- (1) Provide students with the skills and experiences necessary for teaching art in elementary and secondary schools;
- (2) Prepare students for pure, creative production;
- (3) Provide basic preparation for further study in the various professional fields of art;
- (4) Provide electives for the total growth of students; and
- (5) Enrich the community through art activities such as exhibitions, motion pictures, lectures, and art clubs.

ART EDUCATION

To implement the foregoing objectives, the Department of Fine Arts offers courses leading to the degree of Bachelor of Science in Education, with a concentration in art education. A graduate who has completed the art education program may be recommended to the Division of Teacher Certification for certification as a teacher of art in grades one through twelve.

THE MUSIC PROGRAM

The courses in music lead to the degree of Bachelor of Science in Education, with a concentration in music education. The program is listed on pages 91, 92 under caption of the Division of Education.

The curriculum prepares students for certification by the State Department of Education as teachers of music in grades one through twelve; and it provides training in individual and group participation. Adequate preparation for choral conductors and band directors is stressed. Functional piano facility is encouraged for all majors.

It is expected that in all phases of the music program students will be aware of their tremendous responsibility to enrich the lives of

people in their communities by their talents, skills, and musical initiative. The creative impulse is strongly encouraged. Emphasis is continuously placed upon musical activities which develop the entire personality by making use of all physical and mental resources necessary to performance, whether it be in the instrumental or vocal areas, and in exercising intelligent judgment in the area of musical creativity.

ADMISSION TO THE MAJOR PROGRAM IN MUSIC

It is desirable that all applicants for admission to the major program in music will have had at least two years of previous musical training in the vocal and/or instrumental areas. The Department will determine by aptitude tests and individual auditions the applicant's theoretical knowledge, instrumental and vocal proficiency, and general professional fitness for the program. This information will serve as a guide to the Department in helping the applicant to plan his college work.

All majors in music are expected to participate in a musical organization—the band, the choral society, or men's glee club—as long as they are enrolled in the program. All minors are expected to participate for a minimum of two years.

MINOR IN MUSIC

In addition to the major, this department offers the following minor sequence:

A MINOR IN MUSIC

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours</i>
Music 101-102-103	Fundamentals of Instruments/ Voice	3
Music 111-112-113	Theory I (Ear-training & Sight-singing)	9
Music 201-202-203	Intermediate Instruments/ Voice	3
Music 211-212-213	Theory II (Harmony)	9
Music Ed 308	High School Music	4
		<hr/> 28

DEPARTMENT OF MODERN LANGUAGES

HOWARD M. JASON, *Head*

Eusebio M. Valle

Althea V. Morton

The aims of the Department of Modern Languages are (1) to develop the ability to communicate in a foreign language; (2) to instill respect for other peoples and other cultures; (3) to develop an appreciation for the artistic expressions which are found in other languages; and (4) to bring about a greater awareness of our own cultural heritage. Underlying these aims is the ultimate goal of preparation for a more effective life.

LANGUAGE PROGRAMS

To realize these aims the department offers instruction in the foreign languages which are generally required in the several curricula of the college. In addition, it offers courses leading to the degree of Bachelor of Science in Education with a concentration in French or Spanish. The language teaching program requires completion of a minimum of forty quarter hours in one foreign language, beyond the elementary courses. A student completing the degree requirements with one of these sequences may be recommended for certification to teach the language. The programs for French and Spanish teachers are listed under caption of the Division of Education.

This department offers also a minor in French and a minor in Spanish. The French minor comprises French 241, 242, 243, 341, 342, 343. The Spanish minor consists of Spanish 261, 262, 263, 361, 362, 363.

THE GENERAL REQUIREMENT

The general modern language requirement is one year (15 quarter hours) of acceptable work in one language. Students who have had no foreign language and those who present fewer than two units of high school credit normally take the elementary course. If a student has earned two or more units in a foreign language in high school and continues the study of the same language, he is required to take an examination administered by the Department for placement purposes. When a student begins the study of a foreign language at the intermediate level, two courses are sufficient to meet the language requirement for graduation.

DIVISION OF NATURAL SCIENCES

Prince A. Jackson, Jr., *Chairman*

DEPARTMENT OF BIOLOGY

Margaret C. Robinson, *Head*

P. H. Ireland
P. V. Krishnamurti
G. K. Nambiar
Leo Richardson

G. L. Vertrees
J. B. Villella
S. O. Williams

The aims of the Department of Biology are: (1) to provide for all students that knowledge which is essential to an understanding of the biological basis of living; (2) to train persons adequately through the media of advanced courses for entry into the professional study of medical technology, dentistry, medicine, and nursing; and (3) to prepare persons to teach the biological sciences in the secondary school or to continue study on the graduate level.

In addition to the required general courses, the department offers courses leading to the degree of Bachelor of Science with a major in biology, as well as a minor.¹

PLAN OF STUDY

Biology 123-124 is designed for non-science majors as a part of the general curriculum. Biology 126, 127, 204, and 205 are intended as basic courses for students who plan to major in one of the sciences, or who desire training preparatory to either the study of dentistry or graduate study. For persons who plan to teach biology or another of the sciences in the secondary school, the Division of Natural Sciences provides a general science concentration. The curriculums are outlined under caption of the Department of Secondary Education.

For the major at least thirty quarter hours on the junior and senior levels are required. For the minor, at least twenty quarter hours on the junior and senior levels are required.

Biology Curriculum

Course & No.	FRESHMAN YEAR <i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ed 100	Freshman Lectures	(R)		
Biol 126, 127	Invertebrate and Vertebrate Zoology	5	5	
Chem 101-102	General Inorganic Chemistry	5	5	
Chem 103	Qualitative Analysis			5
H Ed 112	Personal Health	1		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art			5
P Ed 111,113	Seasonal Activities	1	1	
		<hr/> 17	<hr/> 16	<hr/> 15

¹On July 1, 1966, the Departments of Biology and Chemistry began offering courses leading to a Bachelor of Science degree in Medical Technology.

SOPHOMORE YEAR

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
Biol 204-205	General Botany		5	5
Hum 207-208-209	World Literature	3	3	3
Math 107-108	College Algebra & Trigonometry I, II	5	5	
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 102	History of Western Culture			5
Soc Sc 111	World and Human Geography	5		
Physics 201,202,203	General Physics	5	5	5
		<hr/> 19	<hr/> 19	<hr/> 19

JUNIOR YEAR

Biol 301-302 or	Comparative Anatomy of Vertebrates	5	5	
Biol 308-309	Plant Anatomy and Plant Ecology			
Biol 303 or	Vertebrate Embryology			5
Biol 310	Plant Morphology & Systematics			
Biol 304	Genetics			5
Hum 141-142-143 or	Elementary French	5	5	5
Hum 151-152-153	Elementary German			
Math 212	Analysis I	5		
Pol Sc 200	Government		5	
Elective				
		<hr/> 15	<hr/> 15	<hr/> 15

SENIOR YEAR

Biol 401 or	General Physiology	5		
Biol 409	Plant Physiology			
Biol 403 or	Animal Histology & Microtechnique			5
Biol 408	Botanical Histochemistry & Microtechnique			
Chem 307-308	Organic Chemistry	5	5	
Hist 300 ¹	History of U.S. & Ga.		5	
Biol 406	Seminar-Discussion on Latest Developments in Biology			1
Biol 407	Introduction to Research			2
Soc Sc 201	Psychological Basis for Human Behavior	5		
Pol Sc 200	Government		5	
Electives				5
		<hr/> 15	<hr/> 15	<hr/> 13

Total quarter hours required for
graduation

195

DEPARTMENT OF CHEMISTRY

WILLIE G. TUCKER, *Head*

C. VERNON CLAY

KAMALAKAR B. RAUT

MANCHERY P. MENON

The work in the Department of Chemistry is intended to serve four purposes: (1) to provide a thorough foundation in the general courses for students who seek an understanding of the methods and achievements of the chemist; (2) to include the needed semi-specialized preparation for students who are majoring in home economics and engineering technology; (3) to afford training for persons who plan to

¹If the student has satisfied the history requirement through examination, he should take an elective.

teach science in the secondary school; and (4) to include preprofessional training for students who intend to study dentistry, medicine, and the like, and for those who plan to enter graduate school.

The Department of Chemistry offers the usual general courses, a minor sequence, and courses leading to the degree of Bachelor of Science with a major in chemistry.

For those who plan to teach science in the secondary school, the Division of Natural Sciences provides a general science concentration. The curriculum is listed under caption of the Department of Secondary Education.

Chemistry Curriculum

FRESHMAN YEAR		Quarter Hours Credit		
<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Chem 101-102-103	General Inorganic Chemistry	5	5	5
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
P Ed 111-113	Seasonal Activities	1	1	
Soc Sci 101-102	History of Western Culture	5	5	
Pol Sc 200	Government			5
		16	16	15
SOPHOMORE YEAR				
Math 107-108	College Algebra & Trigonometry	5	5	
Math 109	Analytic Geometry			5
Hum 151-152-153	Elementary German	5	5	5
Hum 207-208-209	World Literature	3	3	3
Chem 307-308-309	Organic Chemistry	5	5	5
P Ed 211-212-213	Seasonal Activities	1	1	1
		19	19	19
JUNIOR YEAR				
Biol 123-124	General Biology	5	5	
Math 212-213	Analysis I, II	5	5	
Soc Sc 201	Psychological Basis for Human Behavior			5
Chem 303-304-305	Analytical Chemistry	5	5	4
Hist 300 ¹	History of the U.S. & Ga.			5
Chem 313-409-410	Organic Preparations	1	1	1
Chem 311-407	Introduction to Chemical Research		1	1
		16	17	16
SENIOR YEAR				
Chem 401-402-403	Physical Chemistry	4	4	4
Phy 201-202	General Physics	5	5	
Chem 404-405	Biochemistry	5	3	
Chem 406	Biochemical Preparations			2
Chem 407	Introduction to Chemical Research	1		
Chem 408	Chemical Seminar	1	1	1
Chem 415	Chemical Literature			1
Elective				5
		16	13	13

Total quarter hours required for graduation

195

¹If the student has satisfied the history requirement through examination, he should take an elective.

Medical Technology Curriculum

FRESHMAN YEAR		Quarter Hours Credit		
<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ed 100	Freshman Lectures	(R)		
Chem 101-102-103	General Inorganic Chemistry	5	5	5
Hum 107-108-109	English Communicative Skills	5	5	5
P Ed 111-113	Seasonal Activities	1	1	
Soc Sc 101	History of Western Culture			5
Math 107-108	College Algebra & Trigonometry	5	5	
		16	16	15

SOPHOMORE YEAR				
Hum 151-152-153	Elementary German	5	5	5
Biol 123-124	General Biology	5	5	
Chem 307-308	Organic Chemistry	5	5	
Chem 350	Biochemical Analysis			5
Soc Sc 103	History of Western Culture			5
P Ed 211-212-213	Seasonal Activities	1	1	1
		16	16	16

JUNIOR YEAR				
Pol Sc 200	Government	5		
Soc Sc 201	Psychological Basis for Human Behavior		5	
Hum 207-208-209	World Literature	3	3	3
Biol 301-302	Comparative Anatomy of Vertebrate		5	5
Chem 303-304	Analytical Chemistry	5	5	
Elective				5
Chem 312	Chemical Seminar		1	
Hist 300 ¹	History of the U.S. & Georgia	5		
Biol 306	General Bacteriology			5
Chem 415	Chemical Literature	1		
		19	19	18

SENIOR YEAR ²			
<i>Courses</i>	<i>Number of Weeks</i>	<i>Didactic Hours</i>	
Clinical Microscopy (including Orientation)	4	14	
Chemistry and Biochemistry	12	57	
Hematology	12	36	
Immunology, Serology, Blood Bank	8	24	
Microbiology	12	39	
Radioisotopes	1	6	
Miscellaneous Procedures	3	14	
	52	190	

¹If the student has satisfied the history requirement through examination, he should take a senior elective.

²The senior year in medical technology consists of 52 weeks of study and practical experience in the Memorial Hospital Laboratory, or some other accredited hospital laboratory.

DEPARTMENT OF MATHEMATICS AND PHYSICS

JOHN B. CLEMMONS, *Head*

VENKATARAMAN ANANTHANARAYANAN

*SYLVIA E. BOWEN
 JACQUELYN M. BYERS
 KAILASH CHANDRA

GIAN S. GHUMAN
 PRINCE A. JACKSON, JR.
 WALTER W. LEFTWICH
 MARTHA W. WILSON

WOLFGANG WURZ

The aims of the Department of Mathematics and Physics are: (1) to offer all students an opportunity for acquiring those basic skills which are needed for successful living, together with an appreciation of the contributions of these sciences to the cultural heritage; (2) to equip students in business administration and the natural and technical sciences with the means of developing logical thought procedures and insight into physical laws—all of which constitute essential tools in the several fields; (3) to provide training through advanced courses for students preparing to undertake the study of science, engineering, and those planning to enter graduate school; and (4) to assure adequate preparation in both content and instructional skills for prospective teachers in the secondary school.

PROGRAMS FOR MATHEMATICS AND PHYSICS STUDENTS

This department offers the general mathematics courses required in all curricula of the college. It offers also two minor sequences:

MATHEMATICS MINOR

	<i>Quarter Hours</i>
Mathematics 107	5
Mathematics 108	5
Mathematics 109	5
Mathematics 212	5
Mathematics 213	5
Mathematics (senior elective)	5
Total	30

PHYSICS MINOR

	<i>Quarter Hours</i>
Physics 201-202-203	15
Physics 410	4
Physics (electives from 306, 307, 308, 312)	10
Total	29

It is preferable that the physics minor be taken in combination with a major requiring at least 10 quarter hours of chemistry, 5 quarter hours of college algebra, 5 quarter hours of trigonometry and 10 quarter hours of differential and integral calculus. The minor should begin with Physics 201.

*On leave 1969-1970, 1970-1971.

Students who plan to teach mathematics in the secondary school should follow the mathematics teachers program which is listed under caption of the Department of Secondary Education.

This department offers courses leading to the degree of Bachelor of Science with a major in mathematics. The curriculum follows:

Mathematics Curriculum

FRESHMAN YEAR		<i>Quarter Hours Credit</i>		
<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Biol 123	General Biology			5
Ed 100	Freshman Lectures	(R)		
H Ed 112	Personal Health		1	
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 131	Introduction to Music and Art			5
*Math 107-108	College Algebra & Trigonometry	5	5	
P Ed 111, 113	Seasonal Activities	1		1
Soc Sc 101-102	History of Western Culture	5	5	
		<hr/>	<hr/>	<hr/>
SOPHOMORE YEAR		16	16	16
Ec 201	Principles of Economics		5	
Hum 141-142-143 or Hum 151-152-153 or Hum 161-162-163	Elementary French			
Hum 207-208-209	Elementary German			
Math 212-213-214	Elementary Spanish	5	5	5
P Ed 211-212-213	World Literature	3	3	3
Soc Sc 201	Analysis I-II-III	5	5	5
Elective	Seasonal Activities	1	1	1
	Psychological Basis for Human Behavior			5
		<hr/>	<hr/>	<hr/>
JUNIOR YEAR		19	19	19
Hist 300 ¹	History of the U.S. & Ga.			5
Math 217	Introduction to Probability and Statistics	5		
Math 315-316	Modern Algebra I-II	5	5	
Math 318 or Math 306 or Math 320	Advanced Probability and Statistics		5	
Physics 201-202-203	Basic Computer Programming			
Pol Sc 200	Theory of Equations	5	5	5
	General Physics			5
		<hr/>	<hr/>	<hr/>
SENIOR YEAR		15	15	15
Math 405	Introduction to Higher Geometry	5		
Math 406 or Math 404 or Math 409 or Math 410	Linear Algebra		5	
	Differential Equations			
	General Point Set Topology			
	Introduction to Real Variable Theory			
Math 411	Advanced Calculus			5
Electives	(Major or minor)	10	10	10
		<hr/>	<hr/>	<hr/>
		15	15	15

Total quarter hours required for graduation

195

¹If the student has satisfied the history requirement through examination, he should take an elective.

*Student may skip either or both courses in this sequence, upon recommendation of chairman of the department.

DIVISION OF SOCIAL SCIENCES

Elmer J. Dean, *Chairman*

Blanton E. Black
Thomas H. Byers
Joan L. Gordon
Gaye H. Hewitt

James W. Kelsaw
Delacy W. Sanford
Hanes Walton, Jr.
Elson K. Williams

Good citizenship is the supreme goal of the social sciences. To be able citizens, students should have knowledge of human and cultural backgrounds and relationships. This essential knowledge comes through study of history, economics, sociology, political science, and other social sciences.

The Division of Social Sciences contributes to the realization of good citizenship by fostering three aims of higher education: (1) assisting students to attain those competencies and attitudes essential to all persons in a world of interdependent relationships; (2) preparing students for advanced study in fields such as social work, sociology, political science, and criminal justice; (3) preparing students for teaching the social studies in the secondary school.

THE CHOICE OF A MAJOR

In conformance with the foregoing aims this division provides three curricula. Curriculum one and two lead to the B.S. Degree with a major in the social sciences; curriculum three leads to the B.S. Degree in Criminal Justice.

The program for persons who plan to teach social studies in the secondary school is listed under caption of the Department of Secondary Education.

The curricula of this division are designed for those who definitely do not wish to qualify for a certificate to teach in the secondary school. Persons interested in careers in law, government service, diplomatic service, and research in general, should choose Curriculum I, with the history concentration. Persons interested in careers as social workers, probation officers, vocational counselors, camp counselors, employment interviewers, juvenile court workers, and officials in the immigration service, should choose Curriculum II, with a concentration in sociology. Persons interested in careers in general law enforcement, and/or security, should choose Curriculum III, with a major in Criminal Justice.

This division discourages substitution for the required courses in the concentration. When such approval is granted, it must be reviewed and approved by the Dean of Faculty before becoming effective.

Social Sciences Curriculum I: Concentration in History

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Biol 123-124	General Biology	5	5	
Ed 100	Freshman Lectures	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Hum 121	Introduction to Music and Art			5
P Ed 111, 113	Seasonal Activities	1	1	
Soc Sc 101-102	History of Western Culture	5	5	
Soc Sc 111	World and Human Geography			5
		<hr/> 16	<hr/> 16	<hr/> 15

SOPHOMORE YEAR

Hum 141-142-143	Elementary French	5	5	5
or				
Hum 151-152-153	Elementary German			
or				
Hum 161-162-163	Elementary Spanish			
Hum 207-208-209	World Literature	3	3	3
Math 107	College Algebra & Trigonometry	5		
Nat Sc 203	Physical Science			5
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 201	Psychological Basis for			
	Human Behavior		5	
Pol Sc 200	Government			5
		<hr/> 14	<hr/> 14	<hr/> 19

JUNIOR YEAR

Ec 201	Principles of Economics	5		
Hist 301-302-303	History of the United States	5	5	5
Hist 331-332	History of Europe		5	5
Soc 301	Introduction to Sociology	5		
(Minor Field)			5	5
		<hr/> 15	<hr/> 15	<hr/> 15

SENIOR YEAR

Hist 408	History of Russia since 1815	5		
Hist 414	History of England from the Industrial Revolution to the Present	5		
Hist 415	History of the Far East			5
Hist 416	Introduction to Historical Seminar			5
Electives		5	5	
(Minor Field)		5	10	5
		<hr/> 20	<hr/> 15	<hr/> 15

Total quarter hours required for
graduation

189

**Social Sciences Curriculum II: Concentration in Sociology
Leading to the Professional Study of Social Work**

(Freshman and sophomore courses are the same as
in Social Sciences Curriculum I).

JUNIOR AND SENIOR REQUIREMENTS

JUNIOR YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Ec 201	Principles of Economics	5		
Hist 301-302-303	History of the United States	5	5	5
Soc 301	Introduction to Sociology	5		
Soc 305	The Family			5
(Minor Field)			10	5
		<hr/>	<hr/>	<hr/>
		15	15	15

SENIOR YEAR

Soc 451	Modern Social Problems	5		
Soc 453	Criminology		5	
Soc 454	History of Social Thought		5	
Soc 455	Introduction to Social Work	5		
Soc 458	Techniques of Social Investigation			5
Electives		5		5
(Minor Field)		5	5	5
		<hr/>	<hr/>	<hr/>
		20	15	15

Total quarter hours required for graduation

189

MINORS IN SOCIAL SCIENCES

The Division of Social Sciences offers also the following minor sequences:

MINOR IN SOCIOLOGY

	<i>Quarter Hours</i>
Soc 301	5
Soc 305	5
Soc 451	5
Soc 453	5
Soc 454	5
Soc 458	5
	<hr/>
Total	30

MINOR IN HISTORY

	<i>Quarter Hours</i>
Hist 301-302-303	15
Hist 331-332	10
Hist 308 or 408 or 415	5
	<hr/>
Total	30

MINOR IN POLITICAL SCIENCE

	<i>Quarter Hours</i>
Pol Sc 200	5
Pol Sc 303	5
Pol Sc 304	5
Pol Sc 310	5
Pol Sc 403	5
Pol Sc 405	5
	<hr/>
	30

SOCIAL SCIENCE CURRICULUM III: B.S. Degree in Criminal Justice

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Hum 107-108-109	English Communicative Skills	5	5	5
Biol 125	General Biology	5		
Ed 100	Freshman Lectures	(R)		
Soc Sc 102	History of Western Culture		5	
P Ed 111-113	Seasonal Activities	1		1
Hum 131	Introduction to Music and Art			5
Math 107	College Algebra & Trigonometry			5
Soc 201	Introduction to Sociology	5		
Elective			5	
		<hr/> 16	<hr/> 15	<hr/> 16

SOPHOMORE YEAR

Hum 207-208-209	World Literature	3	3	3
P Ed 211-212-213	Seasonal Activities	1	1	1
CJ 100	Introduction to Criminal Justice	5		
CJ 101	Law Enforcement I			5
Soc 203	Modern Social Problems	5		
Nat Sc 203	Physical Science			5
Soc Sc 201	Psychological Basis for Human Behavior		5	
Pol Sc 200	Government		5	
Pol Sc 311	American Constitutional Law			5
		<hr/> 14	<hr/> 14	<hr/> 19

JUNIOR YEAR

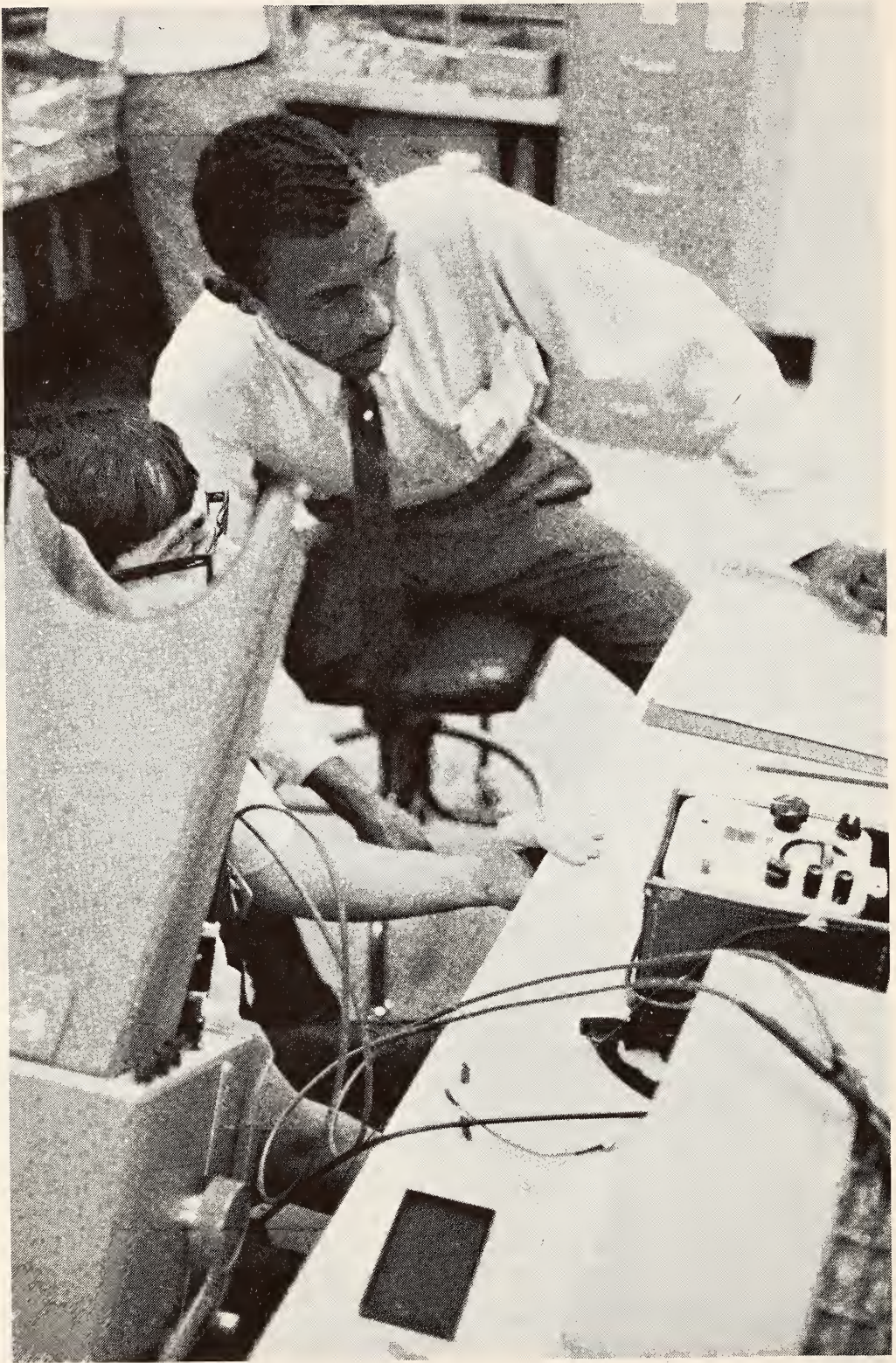
CJ 300	Judicial Processes	5		
Hist 303	History of U.S. since 1900			5
Minor		5	5	5
Soc 302	Criminology I		5	
Soc 306	Race, Poverty and the Law	5		
Soc 307	Introduction to Group Dynamics		5	
Soc 308	Techniques of Sociological Research			5
		<hr/> 15	<hr/> 15	<hr/> 15

SENIOR YEAR

CJ 400	Juvenile Delinquency		5	
CJ 401	Criminology II	5		
CJ 403	Corrections, Probation, and Parole		5	
CJ 404	Law Enforcement II	5		
CJ 410	Seminar in Criminal Justice			5
Minor		5	5	5
Elective				5
		<hr/> 15	<hr/> 15	<hr/> 15

Total quarter hours required for graduation

184



Graduate in Electronics Technology working in
IBM Electronics Laboratory in Poughkeepsie, N. Y.

DIVISION OF TECHNICAL SCIENCES

CLYDE W. HALL, *Chairman*

ORGANIZATION AND DEGREE PROGRAMS

The Division of Technical Sciences comprises instructional programs in engineering technology, home economics, and industrial teacher education. Instructional activities are organized within the Department of Engineering Technology and the Department of Home Economics. The former offers courses leading to the degree of Bachelor of Science, with majors in civil technology, electronics technology, and mechanical technology. The latter offers courses leading to the degree of Bachelor of Science with a major in dietetics and institution management, and a major in textiles and clothing.

BASIC PREPARATION FOR TECHNICAL EDUCATION

Offerings of this division are, in the main, designed to fit graduates for immediate employment as professional and semi-professional workers in technical home economics and engineering technology. Intensive training for careers in these areas presupposes a good foundation in the applied sciences. Accordingly, thorough high school preparation in physics, algebra, plane geometry, trigonometry, and industrial shop is essential for all who plan to study engineering technology. A knowledge of chemistry and a background in home economics are essential for those who go into technical home economics.

INDUSTRIAL TEACHER EDUCATION

As previously noted, industrial teacher education is also a function of the Division of Technical Sciences. Specifically, this division offers the required shop work and special subject preparation for students who plan to teach industrial arts and trade and industrial subjects. The industrial arts education program does not prepare graduates for employment as skilled or semi-skilled workers in industry. On the contrary, it provides instruction in a variety of industrial shop activities. This instruction, augmented by appropriate general and professional education, prepares graduates to teach industrial arts in the secondary school. The trade and industrial education program is designed for those who plan to teach trade and industrial subjects on a vocational basis in the secondary and area vocational-technical schools.

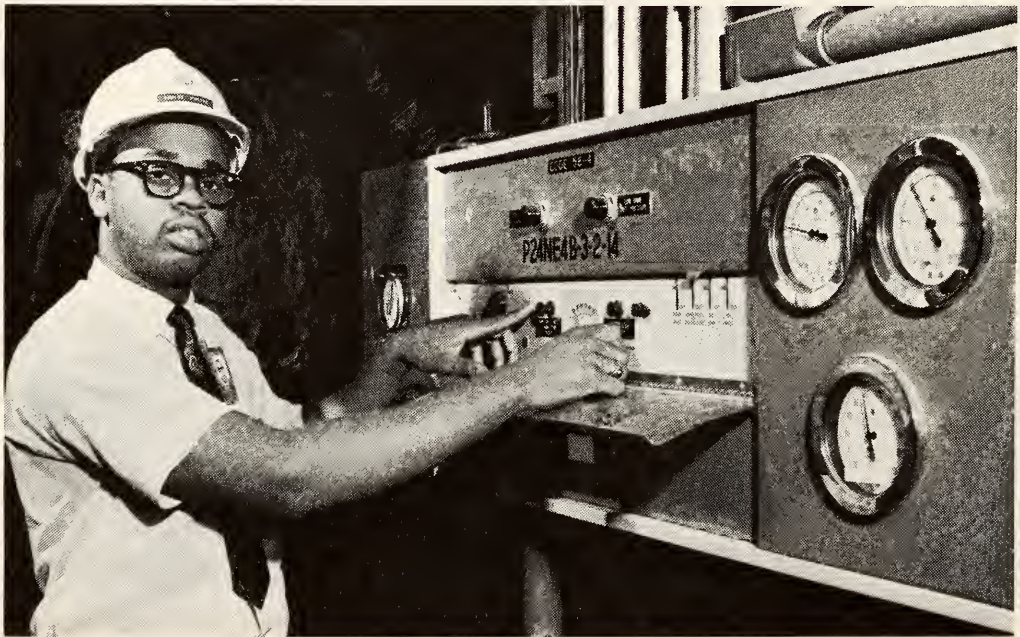
In order to pursue this program one must have learned an occupation in an area vocational-technical school and/or worked in industry in the occupation he is preparing to teach. The industrial arts education and trade and industrial education curricula are listed under caption of the Division of Education.

COOPERATIVE PROGRAM

The Division of Technical Sciences offers a cooperative program in trade and industrial education and engineering technology which enables students to gain practical work experience in industry as paid workers during their college year. This program is open to beginning sophomore students (46 quarter hours) with satisfactory academic records at the college and the specific qualifications of cooperating employers. The college does not guarantee the availability of work stations, kinds of work, or amount of compensation received under this program, but attempts to locate desirable employers and place students to their best educational and financial advantages.

Students in the cooperative program work in industry and attend classes at the college during alternating quarters, and are required to maintain creditable records, both in school and industry, in order to continue in this program. Persons in this program are considered by the college to be regularly enrolled students while they are employed in industry, therefore, they may not enroll in classes at any educational institution during the employment period. Students must observe all applicable regulations of the employing company and must consider themselves employees of the company while on-the-job.

Students pursuing this program will take five years to complete their requirements for the Bachelor's degree, and at the conclusion of the program they are not obligated to accept employment with cooperating companies and neither are the companies obligated to offer them employment.



Civil Technology graduate of Savannah State College testing equipment on the refrigeration-air conditioning unit of a major building in Union Carbide Plant, Oak Ridge, Tennessee.

DEPARTMENT OF ENGINEERING TECHNOLOGY**WILBUR H. SULLIVAN, *Acting Head***

Leroy Brown

Lester B. Johnson

John L. Mason

B. J. Rao

Frank D. Tharpe

Engineering technology embraces the physical sciences, mathematics, and the practices of modern industry which are utilized in the design and construction of the machines, structures, highways, power sources, communication systems, and materials needed to maintain a highly civilized society. The activities of engineering technology are concerned with translating the concepts and theories of professional engineers and scientists into actual devices and products by using laboratory tests to provide data for rational designs. These tests are followed by interpretations of data and preparation of working drawings for use by skilled craftsmen who produce the devices and products.

Thus, to prepare men and women with technical knowledge and skills essential to modern society, the Department of Engineering Technology offers courses in civil, electronics, and mechanical technology. Each of the following programs leads to the degree of Bachelor of Science.

CIVIL TECHNOLOGY

The curriculum in civil technology is designed to provide ample instruction in those areas of knowledge required for successful performance in these capacities:

Architectural and Structural Draftsman and Designer—plans, designs, and supervises construction of frame, steel, and concrete structures; makes architectural inspections and appraisals for architects and builders.

Highway Engineering Technician—collects and tests soil samples, concrete and other materials to ascertain their physical characteristics for use in highway construction; establishes the location and measurements of points, elevations, lines, areas and contours of land needed for highway construction and prepares hard copy or rough draft drawings of same.

Estimator—determines quantities and costs of materials and labor required to erect structures.

Materials Tester—determines mechanical properties of materials used in the erection of structures and highways.

Surveyor—supervises, directs, and is responsible for the accuracy of the work of an engineering survey party engaged in determining the location and measurements of points, elevations, lines, areas, and contours on the earth's surface for purposes of securing data for building and highway construction, mapmaking, land valuation, mining, or other purposes.

Civil Technology Curriculum

FRESHMAN YEAR

<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Quarter Hours Credit</i>		
		<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
CTC 103	Slide Rule			2
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
Math 107-108	College Algebra & Trigonometry	5	5	
MTC 101-102-103	Engineering Drawing I-II-III	5	5	5
P Ed 111-113	Seasonal Activities	1	1	
Math 109	Plane Analytic Geometry			5
		<hr/> 16	<hr/> 16	<hr/> 17

SOPHOMORE YEAR

Hum 131	Introduction to Music & Art			5
Math 212-213	Analysis I-II	5	5	
MTC 202	Statics		5	
MTC 203	Dynamics			5
Phy 201	General Physics I	5		
Soc Sc 201	Psychological Basis for Hum. Behavior			5
Soc Sc 101-102	History of Western Culture	5	5	
P Ed 211-212-213	Seasonal Activities	1	1	1
		<hr/> 16	<hr/> 16	<hr/> 16

JUNIOR YEAR

CTC 302	Construction Planning, Equipment, and Methods		5	
CTC 303	Hydraulics			5
CTC 313	Timber Structures			5
CTC 333	Surveying I			5
ETC 322	Technical Sciences Seminar		1	
CHE 101	General Organic Chemistry	5		
Eco 201	Principles of Economics		5	
MTC 321-322	Strength of Materials I-II	5	5	
Hist 300 ¹	History of U.S. & Ga.	5		
Elective		5		
		<hr/> 20	<hr/> 16	<hr/> 15

SENIOR YEAR

CTC 401	Structural Steel Design	5		
CTC 402	Construction Estimating		5	
CTC 411	Soil Mechanics	5		
CTC 412	Reinforced Concrete Design		5	
CTC 413	Codes, Specifications & Contracts			5
CTC 421	Surveying II	5		
CTC 422	Highway Engineering		5	
Psc 200	Government			5
ECT 423	Technical Report Writing			2
Elective				5
		<hr/> 15	<hr/> 15	<hr/> 17

Total quarter hours required for graduation

195

¹If the student has satisfied the history requirement, he should take a senior elective.

ELECTRONICS TECHNOLOGY

The electronics technology curriculum provides instruction in the fundamentals of vacuum tube and semiconductor circuit theory, with emphasis on the application of theoretical principles to actual electronic devices. Graduates of the electronics technology sequence are prepared to function in these positions:

Electronics Draftsman—prepares working drawings of electronic devices.

Research Analyst—engages in design and development activities involved in producing new electronic devices.

Communications Technician—performs accurate tests of the performance of new electronic devices for manufacturers of electronic components; installs, operates, and maintains various types of communications equipment.

Electronics Technology Curriculum

FRESHMAN YEAR		Quarter Hours Credit		
Course & No.	Descriptive Title	Fall	Winter	Spring
CTC 103	Slide Rule			2
Ed 100	Freshman Lectures	(R)		
ETC 103	Electrical Fundamentals			5
Hum 107-108-109	English Communicative Skills	5	5	5
Math 107-108	College Algebra & Trigonometry	5	5	
Math 109	Analytic Geometry			5
MTC 101-102	Engineering Drawing I-II	5	5	
P Ed 111-113	Seasonal Activities	1	1	
		16	16	17
SOPHOMORE YEAR				
ETC 201	Direct Current Circuits	5		
ETC 202	Alternating Current Circuits		5	
ETC 203	Vacuum Tubes & Semiconductors I			5
ETC 213	Electrical Machinery			5
Hum 131	Introduction to Music & Art			5
Math 212-213	Analysis I-II	5	5	
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 101-102	History of Western Culture	5	5	
		16	16	16
JUNIOR YEAR				
Eco 201	Principles of Economics			5
ETC 301	Vacuum Tubes & Semiconductors II	5		
ETC 302	Electronic Circuits		5	
ETC 303	Pulse Circuits			5
ETC 312	Network Analysis		5	
ETC 313	Receivers			5
ETC 322	Technical Sciences Seminar		1	
Math 306	Computer Programming	5		
Phy 201-202	General Physics	5	5	
Elective				5
		15	16	20

Electronics Technology Curriculum—Continued

Course & No.	Descriptive Title	SENIOR YEAR		
		Quarter Hours Credit		
		Fall	Winter	Spring
CTC 423	Technical Writing			2
ETC 401	Control Systems	5		
ETC 411	Industrial Electronics	5		
ETC 412	Communication Law		5	
ETC 422	Electric & Magnetic Fields		5	
ETC 423	Microwaves			5
Hist 300 ¹	History of U.S. & Ga.		5	
Pol Sc 200	Government			5
Soc Sc 201	Psychological Basis for Hum. Behavior	5		
Elective				5
		15	15	17

Total quarter hours required for graduation

195

MATHEMATICS MINOR

Students majoring in electronics technology may obtain a minor in mathematics by taking Mathematics 214 or 404 in addition to the required mathematics sequence.

ELECTRONICS-PHYSICS MINOR

Students majoring in mathematics may obtain an electronics-physics minor by taking Elecs. Tech 201, 202, 203, or 213 in addition to Physics 201 and 202.

MECHANICAL TECHNOLOGY

The mechanical technology curriculum provides an opportunity for a student to receive comprehensive engineering experience which will enable him to design machinery and to prepare working drawings of the same for industry. A graduate of the mechanical technology program is qualified to assume the responsibilities of these positions:

Machine Designer—designs machines and instruments for industry.

Mechanical Draftsman—drafts from specifications sketches of proposed mechanical devices and prepares accurate scale drawings of mechanisms.

Mechanical Engineering Technician—works with mechanical engineer on design and production projects.

¹If the student has satisfied the history requirement, he should take a senior elective.

Mechanical Technology Curriculum

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
CTC 103	Slide Rule			2
Ed 100	Freshman Lecture	(R)		
Hum 107-108-109	English Communicative Skills	5	5	5
Math 107-108	College Algebra & Trigonometry	5	5	
Math 109	Plane Analytic Geometry			5
MTC 101-102-103	Engineering Drawing I-II-III	5	5	5
P Ed 111-113	Seasonal Activities	1	1	
		16	16	17

SOPHOMORE YEAR

Hum 131	Introduction to Music & Art			5
Math 212-213	Analysis I-II	5	5	
MTC 202	Statics		5	
MTC 203	Dynamics			5
P Ed 211-212-213	Seasonal Activities	1	1	1
Phy 201-202	General Physics	5	5	
Soc Sc 101-102	History of Western Culture	5		5
		16	16	16

JUNIOR YEAR

Eco 201	Principles of Economics			5
ETC 322	Technical Sciences Seminar		1	
MTC 301	Materials & Processes	5		
MTC 302	Kinematics		5	
MTC 303	Machine Design I			5
MTC 312-313	Metal Processing I-II		5	5
MTC 321-322	Strength of Materials	5	5	
Soc Sc 201	Psychological Basis for Hum. Behavior	5		
Elective				5
		15	16	20

SENIOR YEAR

CTC 423	Technical Writing			2
Hist 300 ¹	History of U.S. & Ga.	5		
Math 306	Computer Programming		5	
MTC 401	Machine Design II	5		
MTC 402	Thermodynamics		5	
MTC 403	Fluid Mechanics			5
MTC 421-422	Internal Combustion Engines I-II	5	5	
Pol Sc 200	Government			5
Elective				5
		15	15	17

Total quarter hours required for graduation

195

MATHEMATICS MINOR

Students majoring in mechanical technology may obtain a minor in mathematics by taking Mathematics 214 or 404 in addition to the required mathematics sequence.

¹If the student has satisfied the history requirement, he should take a senior elective.

THE DEPARTMENT OF HOME ECONOMICS

EVANEL R. TERRELL, *Head*

Martha M. Corley

Mollie N. Curtright

The Department of Home Economics has two general purposes to help students, (1) develop and clarify values and to assist them to acquire understanding, skills and abilities that will help them make a constructive contribution to their own family-home-community life situations—now and in the future; (2) become knowledgeable of and concerned about their relationships and responsibilities to the well being of people within the greater society. Our specific claim and responsibility is to help students develop the necessary competencies for effective performance in the home economics and/ or home economics related professions.

Program

To attain its purpose the Department of Home Economics provides academic curricula for the Bachelor of Science Degree in two areas of specialization: Dietetics and Institutional Management and Textiles and Clothing. A professional sequence is offered in Child Development for Early Childhood Education majors who wish to earn a teaching degree for nursery school through the primary grades. All three curricula include a core of courses in general education, family life education, and in professional specialties.

Degree Requirements

Students who major in Dietetics and Institutional Management comply with a curriculum prescribed by the American Dietetic Association. Upon graduation, students are eligible for appointments as student dietitians in A.D.A. approved hospitals, industrial or educational institutions. Upon completion of the 5th year internship, career positions as registered dietitians are available with the Federal Government, Red Cross, public, private and educational institutions and branches of the Armed Forces.

A total of 194 quarter hours is required for graduation in all home economics curricula.

Minors

Programs including a minimum of 30 quarter hours have been developed for students who wish to become more proficient and effective in understanding the needs of people and families as they relate to food, clothing and management of human and material resources and family relationships.

General Home Economics
Textiles and Clothing

Early Childhood Education

Early Childhood Education

The training of teachers for early childhood education is also a function of the Department of Home Economics in cooperation with the Division of Education. Prior to beginning formal education at the first

grade, the nursery school endeavors to help the child from two through five years who is still family centered. The emphases are to broaden his interests and stimulate, through informal direction and participation, a familiarity with the world in which he lives and an awareness of an adaptability for social living. The inclusion of nursery schools and kindergartens in public education today provides avenues for immediate employment upon graduation. The early childhood education curriculum is listed under the caption of Division of Education.

To certify and be recommended for the Early Childhood Education Certificate, the following courses must be completed:

Ch Dev 351 Child Development and Guidance
Ch Dev 453 Activities and Materials for Early Childhood Education
Ch Dev 454 The Child and His Family
Nutr 452 Nutrition for Children

PRE-PROFESSIONAL MOTIVATION AND ENRICHMENT

The perspective of students in this department is broadened and enriched through required field trips, junior internships, and experience affiliations with selected food service institutions and social welfare and textile merchandising establishments. The student defrays the cost of all local and special trips, and should allow \$50 for this purpose.

For senior Textile and Clothing majors, an intensive advanced field work internship in Merchandising may be experienced the last quarter of the senior year in specific retail stores in New York, Philadelphia, Chicago, or Minneapolis.

TERMINAL COURSE

Students who for reasons of time or finance may not be able to spend four consecutive years in college may enroll in a two-year course in Dressmaking and Tailoring. Upon the completion of 96 quarter hours a certificate of proficiency is earned.

Dietetics and Institutional Management Curriculum

FRESHMAN YEAR		Quarter Hours Credit		
<i>Course & No.</i>	<i>Descriptive Title</i>	<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Art 130	Applied Art Principles			5
Chem 101-102	General Inorganic Chemistry	5	5	
Ed 100	Freshman Lectures	(R)		
H Ec 101	Introduction to Home Economics	1		
Hum 107-108-109	English Communicative Skills	5	5	5
Math 107	College Algebra & Trigonometry			5
P Ed 111, 113	Seasonal Activities	1	1	
Soc Sc 101-102	History of Western Culture	5	5	
		17	16	15
SOPHOMORE YEAR				
Biol 126	Invertebrate Zoology	5		
Ec 201	Principles of Economics	5		
Foods 212	Principles of Food Preparation		5	
Foods 319	Meal Planning			3
Hum 207-208-209	World Literature	3	3	3
P Ed 211-212-213	Seasonal Activities	1	1	1
Physics 201	General Physics		5	
Soc Sc 201	Psychological Basis for Human Behavior			5
Pol Sc 200	Government		5	
T & C 152	Elementary Textiles	5		
T & C 231	Pattern Construction and Design			5
		19	19	17
JUNIOR YEAR				
Acct 201	Principles of Accounting	5		
Art 330	Interior Design		5	
Biol 306	General Bacteriology			5
Biol 307	Anatomy and Physiology	5		
Chem 307-308	Organic Chemistry		5	5
Foods 335	Quantity Cookery			5
Nutr 316	Elementary Nutrition	5		
Hist 300 ¹	History of the U.S. & Ga.		5	
		15	15	15
SENIOR YEAR				
Bus Adm 412	Personnel Management			5
Chem 404	Biochemistry	5		
Fam Life 406	Family Relationships		5	
Foods 431	Experimental Foods	5		
Inst Mgmt 319	Marketing and Buying	5		
Inst Mgmt 433	Organization and Management			5
Nutr 351	Nutrition and Dietetics		5	
Nutr 451	Diet Therapy			5
Elective			5	
		15	15	15

Total quarter hours required for graduation

195

¹If the student has satisfied the history requirement through examination, he should take an elective.

Recommended Electives:

Foods 400—Demonstration Cookery	5 qtr. hrs.
Nutr 461—Methods of Teaching Nutrition	3 qtr. hrs.
Fam Life 445—Home Management Problems	5 qtr. hrs.
Fam Life 351—Child Development and Guidance	5 qtr. hrs.

The Dietetics and Institutional Management curriculum is approved by the American Dietetic Association as a pre-professional training course for student dietetic internships, a fifth year of training prior to professional status. The internship specialization may be completed in certified programs located in hospitals, public health agencies, college residence halls, commercial institutional food services or medical clinics.

Textiles and Clothing Curriculum

(Freshman courses are the same as in the Dietetics and Institutional Management curriculum.)

SOPHOMORE YEAR

Course & No.	Descriptive Title	Quarter Hours Credit		
		Fall	Winter	Spring
Biol 126	Invertebrate Zoology	5		
Ec 201	Principles of Economics	5		
Foods 212	Principles of Food Preparation		5	
Foods 319	Meal Planning			3
Hum 141-142	Elementary French			
or				
Hum 151-152	Elementary German			
or				
Hum 161-162	Elementary Spanish		5	5
Hum 207-208-209	World Literature	3	3	3
P Ed 211-212-213	Seasonal Activities	1	1	1
Soc Sc 201	Psychological Basis for Human Behavior		5	
T & C 152	Elementary Textiles	5		
T & C 231	Pattern Construction and Design			5
		<hr/> 19	<hr/> 19	<hr/> 17

JUNIOR YEAR

Acct 201	Principles of Accounting	5		
Art 232	Costume Design	5		
Art 330	Interior Design		5	
Chem 307	Organic Chemistry	5		
Fam Life 342	Consumer Economics			5
Hist 300 ¹	History of the U.S. & Ga.			5
Pol Sc 200	Government		5	
T & C 351	Advanced Dressmaking & Tailoring		5	
Chem 310	Textile Chemistry			5
		<hr/> 15	<hr/> 15	<hr/> 15

¹If the student has satisfied the history requirement through examination, he should take an elective.

SENIOR YEAR		Quarter Hours Credit		
Course & No.	Descriptive Title	Fall	Winter	Spring
Art 420	Creative Design			5
Bus Adm 306	Retailing			
or				
Bus Adm 325	Principles of Marketing		5	
Ch Dev 351	Child Development and Guidance		5	
Fam Life 406	Family Relationships	5		
T & C 355	Draping and Dress Design	5		
T & C 450	Advanced Textiles	5		
T & C 457	Textiles in Home Furnishings		5	
T & C 465	Field Problems in Clothing			5
Electives				6
		<hr/> 15	<hr/> 15	<hr/> 16

Total quarter hours required for graduation 195

Recommended Electives:

T & C 315—Family and Children's Clothing	5 qtr. hrs.
Art 340—History of Costume	5 qtr. hrs.
T & C 463—Advanced Tailoring	5 qtr. hrs.
Art 346—Advanced Costume Design	5 qtr. hrs.
Fam Life 445—Home Management Problems	5 qtr. hrs.

Textiles and clothing graduates are prepared to find careers in merchandising and retailing in department stores and specialty shops. Sufficient technical background is given for students who desire a vocation in textile testing. Individual enterprises such as an interior decorator or fabric shop specialist may be established.

Art 152, 232, with additional clothing design in T & C 351, 355, and 463, offers enriched training for prospective design students. Art 340 and Art 430 will be additional electives.

MINORS

General Home Economics

Art 330	Interior Design	5
Ch Dev 351	Child Development and Guidance	5
Fam Life 352	Consumer Economics	5
Fam Life 406	Family Relationships	5
Foods 319	Meal Planning	3
T & C 231	Pattern Construction and Design	5
T & C 351	Advanced Dressmaking and Tailoring	5
		<hr/> 33

Textiles and Clothing

Art 130	Applied Art Principles	5
Art 232	Costume Design	5
T & C 152	Elementary Textiles	5
T & C 231	Pattern Construction and Design	5
T & C 351	Advanced Dressmaking and Tailoring	5
T & C 355	Draping and Dress Design	5
		<hr/> 30

EARLY CHILDHOOD EDUCATION

Ch Dev 351	5
Ch Dev 453	5
Ch Dev 454	5
Ch Dev 460	5
F L 406	5
Nutr 452	5
	<hr/>
	30

TERMINAL COURSE

Dressmaking and Tailoring

Intended for graduates of approved high schools, this program is designed for persons who desire to specialize in dressmaking or become owners of small shops. A Certificate is earned by two-year graduates.

Acct 201	Principles of Accounting	5
Art 130	Applied Art, Principles	5
Art 232	Costume Design	5
Bus Adm 105	Introduction to Business	3
Bus Adm 225	Business Writing	3
Ec 201	Principles of Economics	5
Hum 107-108-109	English Communicative Skills	15
Math 107	College Algebra & Trigonometry	5
T & C 152	Elementary Textiles	5
T & C 231	Pattern Construction and Design	5
		<hr/>
		56

SECOND YEAR

Art 330	Interior Design	5
Bus Adm 304	Salesmanship	5
Bus Adm 306	Retailing	5
or		
Bus Adm 325	Principles of Marketing	
T & C 350	Advanced Dress Making and Tailoring	5
T & C 355	Draping and Dress Design	5
T & C 357	Beginning Tailoring	5
T & C 463	Advanced Tailoring	5
T & C 465	Merchandising	5
		<hr/>
		40

Total quarter hours required

96

¹If the student has satisfied the history requirement through examination, he should take an elective.

DIVISION OF HOME STUDY

In addition to instruction on the campus, Savannah State College is authorized to operate the following programs:

1. College correspondence study
2. Supervised high school study
3. Extension classes
4. Informal adult programs

Such programs have become recognized services of public education, reflecting a sense of obligation to those who cannot undertake residence instruction and to those who do not require residence instruction for personal growth and enrichment.

Extension classes and adult programs are provided upon sufficient demand.

Correspondence Study

Students registering in correspondence study should be graduates of accredited high schools.

College correspondence study is designed as an auxiliary to the regular campus classroom study. The courses follow the same general outline used in the classroom. Study materials and instructors are often the same as those in residence.

Courses completed in these programs (correspondence and extension) and courses completed in similar programs at recognized institutions will be accepted for credit toward graduation at Savannah State College under the following conditions:

1. Not more than 45 quarter hours may be earned in correspondence and/ or extension.
2. Not more than 50% of the required courses in the major or minor may be completed in correspondence and/ or extension.
3. Courses in the professional education sequence may not be taken in correspondence or extension study.
4. Courses may not be taken in correspondence or extension study to remove deficiencies earned in residence.
5. Correspondence or extension courses may not be taken by students who have completed 135 or more quarter hours.

Students desiring to have correspondence or extension credit counted toward graduation should obtain written permission therefor from the Dean of Faculty and present this statement to the office of the Division of Home Study.

Information concerning credit, fees, examinations, textbooks, etc., may be obtained from

The Division of Home Study
Savannah State College
Savannah, Georgia 31404

COURSE DESCRIPTIONS

ACCOUNTING

201. PRINCIPLES OF ACCOUNTING. An introductory course in college accounting which is designed to give basic knowledge of accounting principles and methodology. Detailed study of the technique and formation of balance sheets, profit and loss statements, ledger accounts, and journals. Prerequisite: Business Administration 103. *Five class hours a week. Fall quarter. Credit, five quarter hours.*

202-203. PRINCIPLES OF ACCOUNTING. An introduction to the accounting principles of partnership, corporations, departmental accounting, branch accounting, accounting controls and taxation. Emphasis on preparation, consolidation, analysis, and interpretation of financial statements and other reports commonly used in modern business establishments. *Five class hours a week. Winter and spring quarters. Credit, five quarter hours each quarter.*

301. INTERMEDIATE ACCOUNTING. Theory and practice of accounts are explained by the problem method. The problems are designed to test the student's ability to analyze and interpret a statement of financial facts. Attention is given to the general literature in the field of accounting. Prerequisites: Accounting 202-203. *Five class hours a week. Fall quarter. Credit, five quarter hours.*

302. INTERMEDIATE ACCOUNTING. Introduction to accounting for investments, funds and reserves. Emphasis on problems of accounting as related to management of business. Prerequisite: Accounting 301. *Five class hours a week. Winter quarter. Credit, five quarter hours.*

303. ADVANCED ACCOUNTING. An intensive study of corporate accounting, analysis, and evaluation of the structure and use of corporate statements and reports, including consolidated statements. *Five class hours a week. Spring quarter. Credit, five quarter hours.*

325. FEDERAL INCOME TAX PROCEDURE. An analysis of the Federal Income Tax Law and its application to individuals and partnerships. Extensive practical problems; preparation of returns; administration. Prerequisites: Accounting 202-203. *Five class hours a week. Credit, five quarter hours.*

405. COST ACCOUNTING. A study of basic cost principles, control of manufacturing cost elements, job-order cost systems, standard costs and budget, and managerial uses of costs. The course demonstrates that cost accounting for distribution and for management of non-processing business units, and non-profit enterprises is as essential a part of cost accounting as manufacturing costs. Prerequisites: Accounting 202-203. *One class hour and four two-hour laboratory periods a week. Winter quarter. Credit, five quarter hours.*

440. BUSINESS DATA PROCESSING SYSTEMS. Basic computer concepts applied to systems and methods design, data flow analysis, and the development of an understanding of a need for control procedures in a business information system. Prerequisites: Accounting 302 or consent of instructor. *Five class hours a week. Credit, five quarter hours.*

450. AUDITING. A study of the balance sheet audit, including methods of verifying assets, liabilities, capital and income, and expenses. Prerequisite: Accounting 302. *Five class hours a week. Spring quarter. Credit, five quarter hours.*

460. CPA REVIEW. An intensive study of the approach to and techniques of solving problems of the type presented on CPA examinations. Problem areas and course material selected from recent uniform CPA examinations. (By permission of the Department of Accounting.) *Credit, five quarter hours.*

ART
(Applied)

130. APPLIED ART, PRINCIPLES. Fundamental principles of art and their practical application in the use of color, line, and form. Emphasis is placed upon recognition and appreciation of beauty in the immediate surroundings. *Two class hours and three two-hour laboratory periods a week. Spring quarter. Credit, five quarter hours.*

232. COSTUME DESIGN. Study of dress with emphasis on line and color in relation to the individual. Problems include figure drawing, planning a personal wardrobe, adapting current and historic modes to individual appearance, creating color ensembles, correcting the figure with designs, and improving poor selection. Prerequisite: Art 130. *Two class hours and three two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.*

234. ADVANCED DESIGN. A continuation of basic art. Further practice in the application of color in line and form. Creative expression in various types of art media. Prerequisite: Art 130. *One class hour and two two-hour laboratory periods a week. Fall. Credit, three quarter hours.*

330. INTERIOR DESIGN. Planning, designing, and decorating single rooms, apartments, and houses to meet personal and family problems involved in present-day aesthetic needs; house plans and arrangements; furnishings and color; treatment of backgrounds. *Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

340. HISTORY OF COSTUME, formerly Applied Art 457. The historical, literary, and artistic background of the costumes of various countries from early civilization to the present. Prerequisites: Art 130, 232, or the equivalent. *Three one-hour lecture periods per week. Winter or Spring. Credit, three quarter hours.*

346. ADVANCED COSTUME DESIGN. Creative designing for the fashion figure; sources of fashion inspiration; factors in fashion trend and acceptance. Prerequisites: Art 130 and Art 232. *Three two-hour laboratory periods per week and two one-hour lectures. Winter or Spring. Credit, five quarter hours.*

420. CREATIVE CRAFTS-WEAVING. Techniques of weaving on four-harness table and floor looms; creative drafting and pattern weaving; design, color, and texture applied to textile construction; recent trends and developments. *Two class hours and three two-hour laboratory periods a week. Winter or Spring. Credit, five quarter hours.*

(Art Education)

304. ART EDUCATION. An introduction to art education, philosophy, and practice. Discussion, observation, and studio participation. *One class hour and three two-hour studio periods a week. Fall. Credit, four quarter hours.*

401. PUBLIC SCHOOL ART. Designed to acquaint pre-service and in-service teachers with the techniques and mechanics for developing an elementary art program. Work is given in three-dimensional and two-dimensional forms. *One class hour and four two-hour studio periods a week. Fall, Winter, and Spring. Credit, five quarter hours.*

(Graphic and Plastic Arts)

103. BASIC ART. An introduction to the core principles and elements of all graphic and plastic design. Problems and discussion evolve around two and three-dimensional design. *One class hour and four two-hour studio periods a week. Fall. Credit, five quarter hours.*

108. DRAWING. Problems in various media. Emphasis on drawing media such as charcoal, chalk, crayon, pen and ink. Studio problems and field trips. *Four two-hour studio periods a week. Winter and Spring. Credit, four quarter hours.*

116. CRAFTS I. Experiences in significant craft materials: wood, fabrics, and metal. Students will experience elementary weaving techniques, fabric printing, jewelry and metal projects, and techniques of wood crafts. *Three two-hour studio periods a week. Spring. Credit, three quarter hours.*

217. CRAFTS II. A continuation of Art 116. *Three two-hour studio periods a week. Fall. Credit, three quarter hours.*

238. CERAMICS I. An initial study of ceramic processes such as modeling, stacking, firing, glazing, and decorating ceramic forms. *One class hour, two two-hour periods a week. Winter. Credit, three quarter hours.*

239. CERAMICS II. A continuation of Art 238. Emphasis on design, decorating, and classroom application in the public schools. *Three two-hour studio periods a week. Spring. Credit, three quarter hours.*

250. INTRODUCTION TO WORLD ART. A survey and comparison of contemporary world art of various epochs, with emphasis on the art of Africa and the Orient. Classes will utilize lantern slides, cinema, gallery tours, group discussions, and assigned topics. *Three class hours a week. Spring. Credit, three quarter hours.*

322. PAINTING I. An introduction to painting media and painting techniques including encaustic and gouache. *Five two-hour studio periods a week. Winter. Credit, five quarter hours.*

323. PAINTING II. A continuation of Painting I. Emphasis on advanced techniques, easel and mural designs. *Five two-hour periods a week. Spring. Credit, five quarter hours.*

333. SCULPTURE. A study of three-dimensional forms and the limitations of sculptural media. Experiences include work in clay, wood, stone, metal, and plaster. *Five two-hour studio periods a week. Winter. Credit, five quarter hours.*

430. PRINTMAKING. Designed to provide creative experiences in the reproductive arts. Experiences evolve around monotype and linoleum, also initial experiences in advanced forms of printmaking, such as lithography. Discussions on survey of world printmakers. *One class hour and three two-hour studio periods a week. Fall. Credit, four quarter hours.*

450. HISTORY OF ART I. A survey of art from 800 B.C. in Greece to 1150 A.D. in Europe. *Three class hours a week. Fall. Credit, three quarter hours.*

451. HISTORY OF ART II. A survey of outstanding epochs in art from 1150 A.D. to 1850 A.D. Emphases upon European styles. *Three class hours a week. Winter. Credit, three quarter hours.*

BIOLOGY

123-124. GENERAL BIOLOGY. An introductory course for non-science majors which deals with the fundamental principles of plant and animal life. Biology 123 is prerequisite to Biology 124. *Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours each quarter.*

125. INTRODUCTION TO BIOLOGICAL SCIENCES. Designed for non-science majors who elect two quarters of physical science and one quarter of biological science to fulfill the general science requirement for graduation. *Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.*

126. INVERTEBRATE ZOOLOGY. Major phyla and classes of invertebrate animals, morphology, physiology, life histories and taxonomic relationships of selected representatives of the groups. Prepared specimens are used for observation and dissection. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

127. VERTEBRATE ZOOLOGY. Origin of the chordates, their basic anatomical organization, and their evolutionary history. Lives and habits of the major groups. The laboratory work includes a general introduction to the various taxonomic groups and a somewhat detailed study of Amphioxus, the dogfish, the frog, and the fetal pig. Prerequisites: Biology 126. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

204-205. GENERAL BOTANY. An introduction to botanical principles and a study of the life histories, ecological and evolutionary relationships of the major plant phyla. Prerequisite: Chemistry 101. *Three class hours and two two-hour laboratory periods a week. Winter and Spring. Credit, five quarter hours each quarter.*

301-302. COMPARATIVE ANATOMY OF VERTEBRATES. A comparative study of the organ systems of selected vertebrates. Types of vertebrates, with special reference to man. Prerequisites: Biology 126 and 127. *Three class hours and two three-hour laboratory periods a week. Fall and winter. Credit, five quarter hours each quarter.*

303. VERTEBRATE EMBRYOLOGY. The early embryological development of vertebrates, including fertilization, cleavage, and origin of organ systems. Prerequisites: Biology 225, 226, 301, 302. *Three class hours and two three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

304. PRINCIPLES OF GENETICS. Designed to give the student a detailed knowledge of the application of the laws of heredity and variation to man and other organisms. Prerequisites: twelve hours of biological science. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

306. GENERAL BACTERIOLOGY. General methods for the culture of micro-organisms. Methods of staining and isolating bacteria commonly found in many foods. Prerequisites: six hours of biological science and six hours of organic chemistry. *Three class hours and two three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

307. ANATOMY AND PHYSIOLOGY. A detailed study of the location and functions of the organs in the human body. Prerequisite: ten hours of biological science. A knowledge of chemistry is desirable. *Five class hours a week. Fall. Credit, five quarter hours.*

308. PLANT ANATOMY. A general consideration of the anatomy of seed plants with special emphasis on angiosperms. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

309. PLANT ECOLOGY. A study of the characteristics of populations, their component organisms, and their interactions with the environment. Field trips will visit study areas on and near the campus. *Two one-hour lectures a week and field study. Spring. Credit, five quarter hours.*

310. PLANT MORPHOLOGY AND SYSTEMATICS. A general consideration of the major plant groups inclusive of certain major angiosperms. The viruses, bacteria, algae, fungi, bryophytes, pteridophytes and gymnosperms will be considerably emphasized. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

401-402. GENERAL PHYSIOLOGY. A study of the physiological principles that occur within the animal kingdom. Prerequisites: Biology 126-127, 301-302, together with six hours of organic chemistry and six hours of physics. *Three class hours and two three-hour laboratory periods a week. Fall and winter. Credit, five quarter hours each quarter.*

403. ANIMAL HISTOLOGY AND MICROLOGY. Details of cell structure; elements of tissue; tissue culture; tissue complexes. Prerequisites: Biology 301-302. A knowledge of chemistry is desirable. *Three class hours and two three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

404. INTRODUCTION TO PARASITOLOGY. This course is concerned with methods of identifying, classifying, and studying the life cycles of parasites that affect both plants and animals, with special emphasis on those that affect man. Prerequisites: Biology 204, 126; Chemistry 101, 102. A knowledge of biochemistry is desirable. *Three class hours and two three-hour laboratory periods a week. Fall. Credit, five quarter hours.*

405. INTRODUCTION TO ENTOMOLOGY. A study of the morphology, methods of reproduction, and life histories of various insects that affect man. Prerequisites: Biology 204, 126; Chemistry 101, 102. *Three class hours and two three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

406. SEMINAR. A discussion of the latest developments in biology. Required of all juniors and seniors. *One class hour a week. Credit, one quarter hour.*

408. BOTANICAL HISTOCHEMISTRY AND MICROTECHNIQUE. An introduction to basic principles of botanical microtechnique and histochemical procedures and the applicability of the procedures in botanical problems. *One one-hour lecture and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

409. PLANT PHYSIOLOGY. An introduction to cellular and organismal functions important in the life of green plants with emphasis on the physical and chemical basis of the observed properties and processes. Prerequisites: Botany 201-202; General Chemistry 101, 102, 103. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

410. MARINE BIOLOGY. An introduction to the physiological and ecological biology of micro-organisms, plants and animals of the sea and its shores. Class periods to be arranged. *Spring. Credit, five quarter hours.*

411. SPECIAL TOPICS IN BOTANY. Topics concerning interrelated disciplines of botany not considered as formal courses. Discussions and special lectures by outstanding botanists. *Three one-hour lectures a week. Fall. Credit, three quarter hours.*

412. PHYSIOLOGICAL CHEMISTRY. A course dealing with fundamentals of biological chemistry, with emphasis upon chemical structure, the properties of enzymes, intermediary metabolism, energy transformation and the regulation of cellular processes. Prerequisites: Organic Chemistry and consent of the instructor. *Three class hours and two three-hour laboratory periods a week. Credit, five quarter hours.*

413. TECHNIQUES IN ELECTRON MICROSCOPY. A general consideration of the application of electron microscopy to biological research. Uses of the electron microscope and techniques in the preparation of materials for ultra-microscopic examination. Course includes individual participation in a research problem. Prerequisite: Fifteen hours of biological sciences. *Fall. Credit, five quarter hours.*

414. RADIATION BIOLOGY. A course dealing with the basic principles involved in the mode of action of ionizing radiations and a general survey of their effects on biological systems. Principles, theory and use of detectors and counting instruments will be emphasized. Prerequisite: Senior standing in the major field, Biology 401, or approval of instructor. *Three class hours and two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

BUSINESS ADMINISTRATION

103. BUSINESS MATHEMATICS. Selected topics pertinent to the field of business; fundamental mathematical operations; fractions and percentages; interest computations and consumer credit: cash and trade discounts; mark-up and commission computations; ratios and proportions; square roots. *Five class hours a week. Credit, five quarter hours.*

104. BUSINESS MATHEMATICS. Selected topics pertinent to the field of business; algebraic calculations; exponents and logarithms; measures of central tendency and percentiles; measures of dispersion; compound interest and annuities, amortization and sinking fund; charts and graphs; binary number systems. *Five class hours a week. Credit, five quarter hours.*

105. INTRODUCTION TO BUSINESS. A survey of the fundamental facts, ideas, and conception of modern business enterprises. *Three class hours a week. Spring. Credit, three quarter hours.*

225. BUSINESS COMMUNICATIONS. The application of basic principles of English grammar, basic report writing, and research techniques to presentations and written communications as demanded in business. The role of written communication in relation to new media enters into the consideration given to communication theory. *Three class hours a week. Spring and Summer. Credit, three quarter hours.*

300. BUSINESS MACHINES. Designed to familiarize the student with different types of machines used in various offices, and to develop a reasonable degree of skill in the operation of a few of these office machines. *One class hour and four laboratory hours a week. Credit, five quarter hours.*

301. PRINCIPLES OF DATA PROCESSING. A concepts course on modern methods of processing data as related to business; includes the use of computers and unit record systems as facilitating units for the accurate recording and reporting of data. *Three class hours a week. Fall and Summer. Credit, three quarter hours.*

304. SALESMANSHIP AND SALES MANAGEMENT. A study of personal selling; types of customers; problems of administration; and the selection, training, compensation and management of sales forces. *Five class hours a week. Credit, five quarter hours.*

306. RETAILING. Principles and practices of buying, advertising, selling, and store management as applied to business enterprises. *Five class hours a week. Credit, five quarter hours.*

307. PRINCIPLES OF INSURANCE. The theory of insurance and current insurance practices. Uses of insurance, types of insurance, organization types, policies, mortality, etc. *Five class hours a week. Credit, five quarter hours.*

317. BUSINESS LAW. Contracts: their formation, performance rights, and remedies, agencies, sales and their execution; forms and legal effect of negotiable instruments; rights and liabilities of parties to contract. *Five class hours a week. Credit, five quarter hours.*

323. MONEY, CREDIT, AND BANKING. The principles of money and banking with special reference to their functions. Money and its attendant economic problems; credit; the banking process and the banking system; foreign and domestic exchange; the business cycle; history of banking. *Five class hours a week. Credit, five quarter hours.*

325. PRINCIPLES OF MARKETING. The distribution of goods and services from producers to consumers; market methods employed in assembling, transporting, storage, sales, and risk taking; analysis of a commodity, brands, sales methods and management; advertising plans and media. *Five class hours a week. Winter. Credit, five quarter hours.*

400. PERSONAL CONTEMPORARY PROBLEMS OF THE HOME, BUSINESS AND INDUSTRY. (Same as Family Life 400.) A course in personal finance. *Five class hours a week. Credit, five quarter hours.*

403. ADVERTISING. Uses and limitations of advertising as a tool of management; and as a factor in the "marketing mix" of an organization; the sales process and psychological objectives of advertising, copywriting, and layout design; types of advertising media; criteria for selection of specific media. *Five class hours a week. Credit, five quarter hours.*

407. BUSINESS FINANCE. Principles, problems, and practices associated with the financial management of business institutions; nature and types of equity financing; major types of short-term and long-term debt; capitalization; financial statements; working capital requirements, reorganization; bankruptcy; methods of inter-corporate financing. Prerequisites: Eco 331-332. *Five class hours a week. Credit, five quarter hours.*

409. ADMINISTRATIVE PRACTICE AND INTERNSHIP. One hundred hours of practical work experience are required in offices of Savannah State College and nearby business concerns. In addition, a two-hour weekly seminar is directed toward a study of administrative practices, human relations, and policy development and implementation. By special arrangement, laboratory work may be taken during the summer before the senior year. Off-campus experience is permitted if it is arranged in advance through the Chairman of the Division. *Two class hours and five two-hour laboratory periods a week. Credit, five quarter hours.*

410. ADMINISTRATIVE PRACTICE AND INTERNSHIP. Practical work and seminar requirements are the same as in 409 Administrative Practice and Internship, except that the two-hour weekly seminar is directed toward the completion of a research project in the area of business administration. *Two class hours and five two-hour laboratory periods a week. Credit, five quarter hours.*

412. PERSONNEL MANAGEMENT. The methods and procedures used by business management in recruiting, selecting, and maintaining an efficient work force; nature and use of application form; interviewing techniques; construction and use of service records and job descriptions; job evaluation techniques; grievance procedures; morale and its significance to production. *Five class hours a week. Credit, five quarter hours.*

415. BUSINESS ORGANIZATION AND MANAGEMENT. A comprehensive study of principles of business organization and management. Emphasis is placed upon reports by students in which they collect data and make analyses necessary for organizing a business of their own choosing. *Five class hours a week. Fall. Credit, five quarter hours.*

465. BUSINESS POLICY. The integration of knowledge of the various functional fields of business, with emphasis on decision making. Case study approach. *Five credit hours.*

BUSINESS EDUCATION

350. MATERIALS AND METHODS OF TEACHING BUSINESS SUBJECTS. An analysis of specialized methods used in teaching business subjects on the secondary level, from which the student evolves a personal philosophy to determine teaching procedures. Includes basic principles and curriculum structure of general and vocational business education. *Five class hours a week. Credit, five quarter hours.*

450. VOCATIONAL DEVELOPMENT IN THE TEACHING OF DATA PROCESSING. Systems, program languages, computer operation, and techniques of teaching Data Processing. Prerequisite: Math 306-307 (Computer Programming). *Five class hours a week. Credit, five quarter hours.*

CHEMISTRY

101. GENERAL INORGANIC CHEMISTRY. Study of the more important nonmetallic and metallic elements, with particular emphasis on fundamental principles and practical application to everyday problems. *Four class hours and one three-hour laboratory period a week. Fall, Winter, Spring and Summer. Credit, five quarter hours.*

102. GENERAL INORGANIC CHEMISTRY. Continuation of Chemistry 101. The laws on which the atomic theory is based; properties of gases, liquids; theory of ionization; methods of preparation and typical reactions. Detailed study of those elements closely related to foods, household operations, and agriculture. *Four class hours and one three-hour laboratory period a week. Winter, Spring and Summer. Credit, five quarter hours.*

103. GENERAL INORGANIC CHEMISTRY. Theory and laboratory practice in the fundamentals of analytical chemistry. The systematic separation and identification of cations and anions. Prerequisite: Chemistry 101-102. *Two class hours and three three-hour laboratory periods a week. Fall and Spring. Credit, five quarter hours.*

115. CHEMICAL CALCULATIONS. An introduction to the use of mathematics in chemistry. *One class hour a week. Winter. Credit, one quarter hour.*

303. ANALYTICAL CHEMISTRY. Volumetric methods of analysis—theory and practice; oxidation, reduction, acidimetry, alkalimetry. Prerequisites: Chemistry 101, 102, 103. *Three class hours and two three-hour laboratory periods a week. Fall. Credit, five quarter hours.*

304. ANALYTICAL CHEMISTRY. Gravimetric methods of analysis. Prerequisites: Chemistry 103, 303. *Three class hours and two three-hour laboratory periods a week. Winter. Credit, five quarter hours.*

305. INSTRUMENTAL METHOD OF ANALYSIS. Theory is experimentally applied in analysis by use of NMR and Mass spectroscopy in the visible, ultraviolet, and infra-red regions of the spectrum. Polarography, refractometry, and gas chromatography are utilized in experimental determinations. Prerequisites: Chemistry 303, 304, or consent of the instructor. *Two class hours and two three-hour laboratory periods a week. Spring. Credit, four quarter hours.*

307. ORGANIC CHEMISTRY. Preparation and tests, properties of carbon compounds, especially aliphatic compounds. Prerequisite: ten hours of college chemistry. *Three class hours and two three-hour laboratory periods a week. Fall and Summer. Credit, five quarter hours.*

308. ORGANIC CHEMISTRY. Continuation of Chemistry 307, with emphasis on carbocyclic and heterocyclic compounds. Prerequisite: Chemistry 307. *Three class hours and two three-hour laboratory periods a week. Winter and Summer. Credit, five quarter hours.*

309. QUALITATIVE ORGANIC ANALYSIS. The chemical and physical properties of organic compounds are used in the laboratory for the purpose of separating organic compounds and identifying compounds. Prerequisites: Chemistry 307, 308. *Two class hours and three three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

310. THE CHEMISTRY OF TEXTILES. The chemical make-up of certain natural and man-made fibers is studied. Prerequisite: Chemistry 307. *Three class hours and two three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

350. BIOCHEMICAL ANALYSIS. Laboratory techniques of identification of biochemical substances such as carbohydrates, proteins, fats, enzymes, vitamins and the nucleic acids will be studied. Prerequisites: Chemistry 307, 308. *Three class hours and two three-hour laboratory periods a week. Spring and Summer. Credit, five quarter hours.*

401-402-403. PHYSICAL CHEMISTRY. Study of the fundamental laws and theories of matter as applied to gases, liquids, solids, and solutions; the phase rule, reaction, velocity catalysis, thermo and electro-chemical reactions. Prerequisites: Chemistry 303, 304. *Three class hours and one three-hour laboratory period a week. Fall, Winter and Spring. Credit, four quarter hours each quarter.*

404. BIOCHEMISTRY. The chemistry of carbohydrates, lipids, proteins, and vitamins is stressed. Prerequisite: Chemistry 307. *Three class hours and two three-hour laboratory periods a week. Fall and Spring. Credit, five quarter hours each quarter.*

405. BIOCHEMISTRY. Enzymes systems in connection with the biochemistry of carbohydrates, lipids, fats and vitamins are studied. Prerequisite: Chemistry 404. *Three class hours a week. Spring. Credit, three quarter hours.*

406. BIOCHEMICAL PREPARATIONS. This course is concerned mainly with the isolation and identification of compounds from natural products. Prerequisite: Chemistry 307 or 404. *One three-hour laboratory period per week. Fall, Winter and Spring. Credit, one quarter hour.*

311-407. INTRODUCTION TO RESEARCH IN CHEMISTRY. Designed to acquaint the student with techniques used in simple research problems. Examination of chemical literature and experimental work. Prerequisite: junior standing in chemistry and consent of the staff. *One three-hour laboratory period a week per one hour credit. Credit, one quarter hour each.*

312-408. CHEMICAL SEMINAR. Modern developments in specific subdivisions of the field of chemistry are considered. Prerequisite: junior or senior standing. *One class hour a week. Credit, one quarter hour each.*

313-409-410. ORGANIC PREPARATIONS. Selected synthesis, oxidation-reduction, and condensation reactions including physical and chemical properties of the synthesized compounds. Prerequisites: Chemistry 307, 308. *One three-hour laboratory period per week. Fall and Winter. Credit, one quarter hour.*

411. RADIOISOTOPE TECHNOLOGY. The course will provide a basic understanding of the nuclear atom, knowledge of the detection and measurement of radioactivity, and also include a study of the many applications of radioisotopes in chemistry, biology, geology, etc. Prerequisite: junior standing in the major field. *Three class hours and one three-hour laboratory period a week. Winter. Credit, four quarter hours.*

415. CHEMICAL LITERATURE. The methods and procedures used by chemists in using the various sources of chemical literature. *One class hour a week. Spring. Credit, one quarter hour.*

CHILD DEVELOPMENT

351. CHILD DEVELOPMENT GUIDANCE. The physical, mental, emotional, and social development of children in early childhood and the interrelating environmental factors influencing the development of the young child. Special reference to techniques and guidance. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

453. ACTIVITIES AND MATERIALS FOR EARLY CHILDHOOD EDUCATION. Principles underlying space needs and the selection and uses of materials for creative experiences with stories, music, literature, art, nature study and other creative media for meeting developmental processes of the young child. *Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

454. THE CHILD AND HIS FAMILY. The interrelations of the child and his family through the stages of the family's life cycle. Emphasis on effects of home and family conditions on development of children. *Five class hours a week. Winter. Credit, five quarter hours.*

460. SPECIAL PROBLEMS OF PRESCHOOL CHILDREN. Study of the social and emotional adjustment of "normal" children, ages 2-5. Emphasis placed on balancing those factors which are preventable and help in resolving difficulties; the teacher's insight and understanding of the child's personality, needs and problems. Prerequisite: Child Development 351. *Five class hours a week. Spring quarter. Credit, five quarter hours.*

CIVIL TECHNOLOGY

103. SLIDE RULE. A study of the proper methods for using slide rules. *Two class hours a week. Spring. Credit, two quarter hours.*

301. CONSTRUCTION MATERIALS. Methods used to manufacture lumber, stone and clay products, binders, concretes, ferrous alloys, and non-ferrous metals and alloys. *Five class hours a week. Fall. Credit, five quarter hours.*

302. CONSTRUCTION PLANNING, EQUIPMENT AND METHODS. Job planning and management, construction equipment, operation analysis, tunneling, cofferdams, piles and pile-driving equipment, steel erection, concrete, and safety engineering. *Five class hours per week. Winter. Credit, five quarter hours.*

303. HYDRAULICS. The analysis and design of hydraulic works. Fluid properties, hydrostatic pressure, fluid motion, analysis of pipe flow, pipe systems, uniform flow in channels, pumps and turbines, and hydraulic models. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

313. TIMBER STRUCTURES. Characteristics and classifications of wood, working stresses, properties, design of structural members, timber connection, codes, and design of problems in light and heavy timber structures. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

333. SURVEYING I. A study of surveying instruments; measurements of distances, elevations, angles, and directions; differential and profile leveling; calculating land areas. Prerequisites: Mathematics 107 and 108. *Two class hours and three two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

401. STRUCTURAL STEEL DESIGN. Scientific principles and drafting room practices involved in designing steel structures. Prerequisite: Civil Technology 313. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

402. ESTIMATING. A study of the mathematical techniques used to estimate the cost of the land, labor, and materials involved in constructing highways and buildings. Prerequisite: Civil Technology 303. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

411. SOIL MECHANICS. A study of the theory of soil mechanics as applied to permeability, consolidation, shear strength; unconfined compression. Atterberg limits, compaction tests, specific gravity, grain size, and classification of soils. Prerequisite: Chemistry 101. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

412. REINFORCED CONCRETE DESIGN. Scientific principles and drafting room practices involved in designing reinforced concrete structures. Prerequisite: Civil Technology 401. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

413. CODES, SPECIFICATIONS, AND CONTRACTS. Laws governing the erection of buildings and the procedures used to express agreement in business transactions concerning building construction. Prerequisite: Civil Technology 402. *Five class hours a week. Spring. Credit, five quarter hours.*

420. DESIGN PROJECT. A course wherein the student conceives, designs, and develops a complete set of working drawings of a structure. Prerequisites: Civil Technology 313, 401 and 412. *Two class hours and three two-hour laboratory periods a week. Credit, five quarter hours.*

421. SURVEYING II. A study of land, route, and construction surveying. Prerequisite: Civil Technology 333. *Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

422. HIGHWAY CONSTRUCTION AND DESIGN. A study of the fundamentals of highway design including highway layout, foundations and pavements; grade intersections and separations; traffic requirements. Prerequisites: Civil Technology 411 and 421. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

423. TECHNICAL REPORT WRITING. Reporting, writing technical reports, illustrating technical reports, research papers, oral reporting, group communication and participation. *Five class hours a week. Spring. Credit, five quarter hours.*

CRIMINAL JUSTICE

100. INTRODUCTION TO CRIMINAL JUSTICE. This course deals with a systematic study of the agencies involved in the process of criminal justice. Required of all criminal justice majors. *Five class hours a week. Fall. Credit, five quarter hours.*

101. LAW ENFORCEMENT I. An introduction to the philosophical and historical background and the role of law enforcement in the field of criminal justice. *Five class hours a week. Spring. Credit, five quarter hours.*

300. JUDICIAL PROCESS. Courts as political subsystems in comparative perspective. Judicial decision-making and the development of public policy through the judicial process. *Five class hours a week. Fall. Credit, five quarter hours.*

302. CRIMINALISTICS. An introduction to the problems and techniques of scientific criminal investigation. Emphasis will be placed on familiarizing the student with the role of science and technology in modern law enforcement. *Five class hours a week. Spring. Credit, five quarter hours.*

400. JUVENILE DELINQUENCY. A survey of theories of juvenile delinquency, the sociological, biological and psychological factors involved in juvenile delinquency and the modern trends in prevention and treatment. *Five class hours a week. Winter. Credit, five quarter hours.*

401. CRIMINOLOGY II. A continuation of basic criminology with an emphasis on such topics as organized crime, white collar crime, drugs and criminality of women. Prerequisite: Sociology 201. *Five class hours a week. Fall. Credit, five quarter hours.*

402. CRIMINAL LAW II. Problems will be drawn from the procedural aspects of constitutional law and explored in the context of the current friction between the values of order and individual liberty. Prerequisite: Criminal Justice 201. *Five class hours a week. Spring. Credit, five quarter hours.*

403. CORRECTIONS, PROBATION AND PAROLE. Principles, institutions and practices of corrections, probation and parole. *Five class hours a week. Winter. Credit, five quarter hours.*

404. LAW ENFORCEMENT II. An intensive study of problems such as abortion, homosexuality, suicide, drug addiction and capital punishment. Prerequisite: Criminal Justice 101. *Five class hours a week. Fall. Credit, five quarter hours.*

405. SEMINAR IN CRIMINAL JUSTICE. An intensive study into selected topics relative to the concept of criminal justice. Prerequisites: Criminal Justice 401, 403, 404 or the consent of the instructor. *Five class hours a week. Spring. Credit, five quarter hours.*

408. DIRECTED RESEARCH IN CRIMINAL JUSTICE. A course designed to provide qualified students the opportunity to perform suitable and meaningful research into some area of criminal justice under the direction of the instructor. Open only by invitation of the instructor. *Five class hours a week. Spring. Credit, five quarter hours.*

ECONOMICS

201. PRINCIPLES OF ECONOMICS I. Basic economic concepts, with emphasis on the role of government; national income and products; business cycles; money and banking; fiscal and monetary policy, and international trade. *Five class hours a week. Fall and Winter. Credit, five quarter hours.*

202. PRINCIPLES OF ECONOMICS II. Basic economics concepts continued from 201. Factors of production; supply and demand; determination of prices and of income; monopolies; the problem of economic growth; and comparative economic systems. *Five class hours a week. Winter and Spring. Credit, five quarter hours.*

302. CURRENT ECONOMIC PROBLEMS. This course examines in depth the important problems and issues which are constantly arising and affect the smoothness and direction of the American economic system. These include Urban Economic Problems: Poverty, inflation, manpower utilization and employment, economic development of the "ghetto," "black capitalism," urban transportation problems, automation, the rate of economic growth, the national budget, consumer credit, income maintenance, and investment trends. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

304. HISTORY OF ECONOMIC THOUGHT. (Formerly Economics 410). Traces the development of economic doctrines. Contributions of individual writers and schools of thought are examined. Examined are the views of mercantilists, classical economists, neo-classical economists, socialists, and Keynesians on such topics as value, distribution, money, and national economic policy. Economic doctrines are related to social issues of a period. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

305. INTERMEDIATE MICRO-ECONOMIC THEORY. Determination of price in terms of the equilibrium of the business enterprise and consumer choices in markets with varying degrees of competition; determination of wages, rent, interest, and profits. Prerequisites: Economics 201, 302. *Five class hours a week. Credit, five quarter hours.*

306. INTERMEDIATE MACRO-ECONOMIC THEORY. The modern theory of the determination of the level and rate of growth of income, employment, output, and the price level. Alternate fiscal and monetary policies to facilitate full employment and economic growth are discussed. Prerequisites: Economics 201, 302. *Five class hours a week. Credit, five quarter hours.*

307. ECONOMIC HISTORY OF THE UNITED STATES. The development of agriculture, industry, commerce, transportation from colonial times to the present; problems raised by economic evolution in the United States. *Five class hours a week. Credit, five quarter hours.*

308. ECONOMIC HISTORY OF EUROPE. The industrial revolution, transportation, money and banking, industrial and commercial activities; tariff policies; agricultural systems; labor; monopoly and big business; colonial policies; current developments. *Five class hours a week. Credit, five quarter hours.*

323. MONEY, CREDIT, AND BANKING. The principles of money and banking with special reference to their functions; credit; the banking process and the banking system; foreign and domestic exchange, the business cycle; history of banking. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

332-333. BUSINESS AND ECONOMIC STATISTICS I AND II. (Formerly Economics 450.) Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data; measures of central tendency, correlation and deviation, graphic representation, sampling, validity and reliability; time series analysis. *Five class hours a week. Credit, five quarter hours each course.*

401. LABOR PROBLEMS. Problems confronting labor and capital; legislation and administrative regulations affecting employer and employees. Prerequisite: Economics 201 or consent of instructor. *Five class hours a week. Credit, five quarter hours.*

402. LABOR AND SOCIAL LEGISLATION. (Formerly Recent Labor Legislation.) A study of legislation designed to provide social and economic protection for men, women, and children. Prerequisites: Economics 201, 401. *Five class hours a week. Credit, five quarter hours.*

403. PUBLIC FINANCE. A study of the effects of taxation upon the economic system; public borrowing and public spending with reference to the present financial system of the United States. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

404. WORLD ECONOMIC GEOGRAPHY. A study of world geography as it affects industries, trade, and economic activity. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

405. INTERNATIONAL ECONOMICS. An introduction to the modern theory of international trade, payments mechanism, commercial policy, and economic integration. Prerequisites: Economics 201, 202, 305. *Five class hours a week. Credit, five quarter hours.*

406. COMPARATIVE ECONOMIC SYSTEMS. A comparative study of current economic systems. Prerequisite: twenty hours of economics or consent of the instructor. *Five class hours a week. Credit, five quarter hours.*

EDUCATION

100. FRESHMAN LECTURES. Required of all freshmen and transfer students; designed to facilitate the adjustment of students to college life, develop desirable personal and social traits, and explore existing occupational opportunities. *One class hour a week. Fall, Winter, and Spring. No Credit.*

216. INTRODUCTION TO TEACHING. Historical development of education; opportunities, social significance and ethics of the profession. The student surveys the many facets of the teacher's work and receives assistance in determining his potential for teaching. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

317. HUMAN GROWTH AND LEARNING. Study of the total growth and development of the individual. Biological, social, and psychological aspects of learning; personality adjustment and mental hygiene. Principles, conditions, skills conducive to effective learning in the several subject fields. Work with children in public and private schools and in community agencies. Prerequisites: Ed. 216 and admission to teacher education. *Four class hours and two four-hour periods devoted to laboratory experiences, including observation participation. Fall, Winter, and Spring. Credit, eight quarter hours. Staff.*

323. CHILDREN'S LITERATURE. A study of children's books and selections from books. Designed to assist future teachers in the selection of the best that has been written in the realm of children's literature for each period of the child's life. *Five class hours a week. Summer. Credit, five quarter hours.*

341. SEMINAR IN THE ELEMENTARY SCHOOL CURRICULUM. Designed to meet students' needs in the teaching of the language arts, including literature, social studies, mathematics, and science; underlying philosophy and interrelationships of the areas; laboratory activities, including observation of and work with elementary pupils; selection and use of literature for children. Registration in additional courses only upon approval of adviser. Prerequisites: Ed. 216 and 317. *Twenty class hours a week. Fall, Winter, and Spring. Credit, fifteen quarter hours.*

347. AUDIO-VISUAL MATERIALS AND METHODS. Workshop experiences in the utilization, evaluation, and preparation of various kinds of audio-visual media. The place of audio-visual aids in the learning process. *Five class hours a week and laboratory. Credit, five quarter hours.*

348. SEMINAR IN THE TEACHING OF FOREIGN LANGUAGES. Discussion of various methods of teaching foreign languages with special emphasis on the audio-lingual method, discussion of problems involved in the teaching of foreign languages, and teaching demonstrations by the students. Prerequisite: junior or senior standing. *Two class hours a week. Credit, none.*

429. CURRICULUM AND TEACHING. Through readings, class discussions, and in selected elementary and secondary schools, students will consider: (1) the function and place of the school in our society; (2) curricular concepts and their psychological and philosophical foundations; (3) types of curricular organizations; (4) methods of organizing and presenting of learning materials; (5) school observation-participation, demonstration in subject fields, micro-teaching. Prerequisites: Education 216 and 317. *Four class hours and two four-hour periods weekly in laboratory participation. Fall, Winter, and Spring. Credit, eight quarter hours. Staff.*

430. STUDENT TEACHING. A cooperative venture between the college and public school systems to provide supervised classroom experience for elementary and secondary student teachers. Pre-field and post-field seminars for orientation and evaluation while the remainder of the quarter is devoted to observation—participation, teaching and total professional involvement proportionate with student readiness. Major field and total group seminars held at

planned intervals during quarter for student teachers to explore problem areas and to receive assistance. Prerequisites: Education 216, 317, 429, 305, completion of English requirements and major field subjects. *Fall, Winter, and Spring. Credit, fifteen quarter hours.*

COP COURSES

Education 115—INTRODUCTION TO SCHOOLS—THE HUMAN ASPECT

Human structure of the school system. Roles and responsibilities of personnel, ethics, general classroom atmosphere and its relationship to learning. Under the premise that all behavior is caused, student is guided through a study of basic types and developmental characteristics of normal human behavior. Through observation and follow-up in the classroom, student receives assistance in recognizing and alleviating types of deviant childhood behavior. Development of skills related to teaching including record keeping, media, educational games and story telling. Designed for beginning paraprofessionals who are working in schools although beneficial as a general introductory course. *Five class hours a week. Credit, five quarter hours.* (Substitute credit for Education 216 for paraprofessionals or elective credit.)

Education 115B or Education 317B or Education 429B—LABORATORY

Classroom follow-up of paraprofessionals by College supervisors. Cooperatively planned by College staff, public school personnel, and paraprofessionals. *Credit, one to three quarter hours usually integrated with professional campus courses.*

Education 232—GAMES AND ACTIVITIES FOR ELEMENTARY TEACHERS

Varied experiences to acquaint prospective teachers with appropriate games and selected activities in arts and crafts for elementary-age learners. Especially planned for paraprofessionals, though open to others. May be substituted for P. Ed. 233. *Afternoon scheduling. Credit, three quarter hours.*

Education 342—THE READING PROCESS

Designed to extend understandings about reading as a developmental, functional, and recreational process. Emphasis on experimental approaches, trends, issues, media, research. Laboratory. *Credit, five quarter hours. Elective.*

Education 411—REMEDICATION IN THE TOOL SUBJECTS

Emphasis on means (1) of determining performance levels and needs of pupils in reading and mathematics skills and (2) of providing corrective assistance for identified problems. Laboratory. *Credit, five quarter hours. Elective.*

Education 428—CURRICULUM

Historical evaluation of American school curriculum. Principles of curriculum development, evaluation of curriculum practices in elementary and secondary schools. Enrollment limited to post-baccalaureate students and in-service teachers. *Summer. Credit, five quarter hours.*

Education 439—THE TEACHING PROCESS IN ELEMENTARY AND SECONDARY SCHOOLS

Principles underlying and teaching practices. Students grouped according to major interest and teaching levels for exploring methods of organizing and presenting learning materials. Laboratory including demonstrations and micro-teaching. Enrollment limited to post-baccalaureate students and in-service teachers. *Summer. Credit, five quarter hours.*

Education 461-462—LABORATORY

Laboratory experience simulating student teaching at the elementary and secondary levels, respectively. Open only to in-service teachers holding, under usual circumstances, the baccalaureate degree. Work with children. *Summer. Credit, ten quarter hours.*

ELECTRONICS TECHNOLOGY

103. ELECTRICAL FUNDAMENTALS. Soldering techniques, electronic drafting, printed circuit construction, chassis layouts, wiring techniques, and laboratory safety. *Five two-hour lecture-laboratory periods per week. Spring. Credit, five quarter hours.*

201. DIRECT-CURRENT CIRCUITS. A study of the electron theory, *Ohm's law*, series and parallel circuits, Kirchhoff's laws, superposition, Thevenin's theorem, and magnetic circuits. Prerequisite: Mathematics 108. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

202. ALTERNATING-CURRENT CIRCUITS. A study of waveforms, impedance, resonance, vector loci, Norton's theorem, transformer theory, and Fourier series. Prerequisite: Electronics Technology 201. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

203. VACUUM TUBES AND SEMICONDUCTORS I. A study of the Edison effect, dynamic coefficients, transistors, silicon diodes, load lines, and filters. Prerequisite: Electronics Technology 202. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

213. ELECTRICAL MACHINERY. Rotating electrical machinery, electronic regulation, and polyphase systems. Prerequisite: Electronics Technology 202. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

301. VACUUM TUBES AND SEMICONDUCTORS II. A study of power supplies; potential, current, audio, and RF amplifiers; rectifiers. Prerequisite: Electronics Technology 203. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

302. ELECTRONIC CIRCUITS. A study of oscillators, audio and RF circuitry, pulse amplifiers, wave shaping circuits, timers, equivalent, gate, and switching circuits. Prerequisite: Electronics Technology 301. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

303. PULSE CIRCUITS. A study of timers; equivalent, gate and switching circuits. Prerequisite: Electronics Technology 302. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

311. ELECTRICAL MEASUREMENTS. Design and construction of electrical measuring devices such as ammeters, voltmeters, wattmeters, bridges, oscilloscopes, time marker generators, and thermocouples. Prerequisite: Electronics Technology 203. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

312. NETWORK ANALYSIS. A study of alternating current circuit characteristics and concepts from the standpoint of complex quantities. Development of transient and steady-state responses. Investigate power and energy in polyphase circuits and relationships to electronic circuits and devices. Prerequisite: Electronics Technology 202. *Five class hours a week. Winter. Credit, five quarter hours.*

313. RECEIVERS. A study of oscillators, antenna systems, squelching circuits, video and synchronous amplifiers; separator, differentiating and integrating circuits, tuners and deflection systems. Prerequisite: Electronics Technology 302. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

322. TECHNICAL SCIENCES SEMINAR. This seminar covers a wide range of theory, techniques and applications as related to the respective technical programs. Lectures by authorities in various fields and industrial tours are scheduled from time to time in order to stimulate interest in the respective fields. *Two class hours a week. Credit, one quarter hour.*

401. AUTOMATIC CONTROL SYSTEMS. A study of basic principles and concepts of automatic control systems. Transform techniques, transfer functions and transducers. Closed loop systems. Use of the analog computer in control system design. Prerequisites: Electronics Technology 302, 303. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

402. AMPLITUDE AND FREQUENCY MODULATION TRANSMITTERS. A study of RF power amplifiers, modulation techniques, transmission lines, exciters, single sideband transmission, reactance tubes, frequency multipliers, noise factors, limiters, bandwidth, and propagation. Prerequisite: Electronics Technology 313. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

411. INDUSTRIAL ELECTRONICS. Induction heating, X-ray techniques, resistance welding, phase inverters, and electronic temperature control. Prerequisite: Electronics Technology 303. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

412. COMMUNICATIONS LAW. Federal regulations governing the use of electromagnetic radiation. Prerequisite: Electronics Technology 313. *Five class hours a week. Winter. Credit, five quarter hours.*

413. SERVOMECHANISMS. A study of synchro generators, synchro motors, inertia damping, repeater systems, control transformers, and resolvers. Prerequisite: Electronics Technology 303. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

422. ELECTRIC AND MAGNETIC FIELDS. A study of electrostatics, including solutions of LaPlace's equation, magneto statics, Maxwell's equations, and electromagnetic laws. Prerequisite: Electronics Technology 302, 303. *Five class hours a week. Winter. Credit, five quarter hours.*

423. MICROWAVES. A study of wave guides, T-junctions, matching devices, cavity resonators, magnetrons, klystrons, hard tube modulators, and polarization. Prerequisite: Electronics Technology 402. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

ENGLISH

204. ADVANCED COMPOSITION. Intensive study of the theory and practice of writing the basic composition forms; exposition, narration, description, and argumentation; interpretative writing based on the inductive study of literary models; investigational writing or research involving methods of presenting data, and other written work of a documentary nature. Prerequisites: Humanities 107, 108, 109. *Five class hours a week. Spring. Credit, five quarter hours.*

207. TECHNIQUES OF COMPOSITION. Designed for prospective teachers of English. Emphasis upon content, logic and organization in connected discourse; development of skill in various types of writing; ability to analyze pieces of writing for strengths and weaknesses, and to make valid suggestions for improvement; relating of these matters to methods of teaching. *Five class hours a week. Credit, five quarter hours.*

210. INTRODUCTION TO ENGLISH LITERATURE. A survey of English writing from Beowulf to the Romantic Period. Prerequisites: Humanities 107, 108, 109. *Five class hours a week. Credit, five quarter hours.*

211. INTRODUCTION TO ENGLISH LITERATURE. A survey of English writing from the Romantic Period to the Contemporary Period. Prerequisites: Humanities 107, 108, 109. *Five class hours a week. Credit, five quarter hours.*

220. AMERICAN LITERATURE FROM 1789 TO 1865. A study of the main currents of thought and expression in America. Prerequisites: Humanities 107, 108, 109. *Five class hours a week. Credit, five quarter hours.*

221. AMERICAN LITERATURE SINCE 1865. A study of the main currents in literary thought and expression in America from 1865 to the present. Prerequisites: Humanities 107, 108, 109. *Credit, five quarter hours.*

301. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY. A survey of the important writers—their styles, subject-matter and philosophies. Special emphasis upon the works of Milton, Dryden, and Bacon. Prerequisite: English 210 or 211, 204. *Five class hours a week. Credit, five quarter hours.*

303. THE ENGLISH ROMANTIC MOVEMENT. The genesis of the Romantic theory and the beginning of the Romantic revolt in England; significant literary aspects of the Movement as shown in the works of Wordsworth, Coleridge, Byron, Shelley, and Keats; in the prose writing of Hazlitt, DeQuincey, Hunt, Lamb and Scott. Prerequisite: English 210 or 211, 204. *Five class hours a week. Credit, five quarter hours.*

305. VICTORIAN PROSE AND POETRY. An analytical study of the age of Queen Victoria of England; literature of the period as represented by the works of Tennyson, the Brownings, Carlyle, Arnold, Ruskin, and Meredith. Prerequisite: English 210 or 211, 204. *Five class hours a week. Credit, five quarter hours.*

306. CONTEMPORARY PROSE AND POETRY. A survey of new personalities and their literary contributions in the fields of prose and poetry. Prerequisites: English 210 or 211, 220 or 221, 204. *Five class hours a week. Credit, five quarter hours.*

320. INTRODUCTION TO THE ENGLISH LANGUAGE. The nature of language, the structure of modern English, descriptive grammars, and history of the English language with extensive treatment of the development of English in America. Prerequisites: Humanities 107, 108, 109. *Five class hours a week. Credit, five quarter hours.*

331. LITERARY ANALYSIS AND CRITICISM: World masterpieces. For English majors. A study of masterpieces other than English and American. *Three class hours a week. Credit, three quarter hours.*

332. LITERARY ANALYSIS AND CRITICISM: World masterpieces. Continuation of 331. *Spring, alternate years. Three class hours per week. Credit, three quarter hours.*

401. SHAKESPEARE. Background, home life, and parentage of Shakespeare; Elizabethan theatrical traditions and conventions. Opportunity for oral reading and critical discussion of the great tragedies, comedies, and historical plays of the author. Consent of instructor. *Five class hours a week. Credit, five quarter hours.*

402. LITERATURE OF THE NEGRO. A survey of literature by and about the Negro. Consent of instructor. *Five class hours a week. Credit, five quarter hours.*

403. CRITICISM: Modern Poetry. Analysis and criticism of recent English and American poetry. Emphasis on the changing ideas of poetry in relation to persistent, as well as new, forms and techniques. Prerequisites: English 210 or 211 and 331 or 332. *Three class hours per week. Credit, three quarter hours.*

405. THE ENGLISH NOVEL. An evaluative study of works of great English novelists. Rise and development of the English novel, together with an analytical appraisal of the four elements—setting, character, plot, and philosophy. Readings and discussion of various types, with emphasis upon the variety of methods by which the novel interprets life. Consent of the instructor. *Five class hours a week. Credit, five quarter hours.*

406. INTRODUCTION TO DRAMA. Chronological study of drama, with emphasis on selected writers and their works. No prerequisites. *Five class hours a week. Credit, five quarter hours.*

410. INTRODUCTION TO JOURNALISTIC WRITING. A survey of newspaper methods, news writing, and reporting. Prerequisite: English 204. *Five class hours a week. Credit, five quarter hours.*

411. PLAY PRODUCTION. A critical study of the types of plays with general principles of directing for each type, editing the script; the fundamentals of casting, lighting, make-up, etc. Prerequisite: English 204. *Five class hours a week. Credit, five quarter hours.*

413. ADVANCED SPEECH. Designed to supplement speech instruction given in Humanities 107, 108, 109. Emphasizes self-improvement in all phases of diction and provides experiences in various speaking situations. Designed primarily for teaching majors but can be used by any student. Consent of instructor. *Credit, five quarter hours.*

430. JOURNALISM. To create opportunities for professional evaluation and guidance; to aid the participant in acquiring college journalism training which will be in improving scholastic newspaper and curriculum offerings, to develop an appreciation for the printed word and its influence on the reader. *Five class hours a week. Fall. Credit, five quarter hours.*

431. JOURNALISM. Practice in writing for newspapers, radio, TV, business publications, and other media. *Five class hours a week. Winter. Credit, five quarter hours.*

432. JOURNALISM. Writing and merchandising of the non-fiction feature for Sunday magazine supplements, newspapers, and magazines. *Five class hours a week. Spring. Credit, five quarter hours.*

450-451-452. SEMINAR IN ENGLISH. Special problems in English. Reports and research techniques. Prerequisite: junior standing. Three courses required of all majors in either their junior or senior years. *One class hour a week. Fall, Winter, and Spring. Credit, one quarter hour each.*

FAMILY LIFE

342. CONSUMER ECONOMICS. Consideration is given to pertinent factors of production, marketing, purchasing, and maximum use of household goods. *Five class hours a week. Winter and Spring. Credits, five quarter hours.*

400. PERSONAL CONTEMPORARY PROBLEMS OF THE HOME, BUSINESS AND INDUSTRY. A broad interdisciplinary course in general education, designed for students with limited backgrounds in business, industry, and advantaged family living. The course covers topics in American industrial and business organization, international economy, general investments, and essentials for and satisfying family living. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

401. NEWER TECHNIQUES IN FAMILY LIVING. Consideration of newer concepts of family living in a changing world. Problems concerning sociological pressures on the family as a consumer in an affluent society. *Five class hours a week. Credit, five quarter hours.*

406. FAMILY RELATIONSHIPS. Designed to acquaint students with the significance of marriage, the relationships between various members of the family group, and the degree to which the interplay of personality within the family is affected by culturally conditioned attitudes and needs. *Five class hours a week. Fall. Credit, five quarter hours.*

445. HOME MANAGEMENT PROBLEMS. (Formerly Home Management Residency.) A laboratory course designed to prepare young people for family living in a changing society. Problems in living are developed on three levels of income with complementary environmental backgrounds. Experience offered five days per week from breakfast through dinner. Laboratory fees cover cost of meals. Juniors by consent of instructor. *Fall, Winter, and Spring. Credit, five quarter hours.*

FOODS

212. PRINCIPLES OF FOOD PREPARATION. Composition, nutritive value, cost, and processing of different foods. Chemical and physical properties of foods are emphasized in the techniques of basic food preparation and the development of food standards. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

319. MEAL PLANNING. Planning, preparation, and serving attractive and appropriate meals for the family, according to its nutritive needs; stressing time, energy, and money management. Prerequisite: Foods 212. *One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

334. THE SCHOOL LUNCH. Practical experience in planning nutritious menus for larger groups at various age levels. The preparation and service of foods in quantity. Facilities of the College Cafeteria and the Nursery School are used for practice work. Prerequisite: Foods 219. *One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

335. QUANTITY COOKERY. Experience in production of food in large quantity; use of steam and power equipment; menu making for institutions. Computation of costs, menu pricing, and portion control. Prerequisites: Food 212, 319. *Two class hours and three two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

371. COOKING FOR SPECIAL OCCASIONS. Study and preparation of foods for various types of party groups. Some problems in food dishes of other nations. Prerequisite: Foods 219. *One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

400. DEMONSTRATION COOKERY. Principles and techniques of demonstrations in foods and nutrition; application to needs of extension, business, classroom and community teaching. Prerequisites: Foods 212, 319. *Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

431. EXPERIMENTAL FOODS. Laboratory work in solving practical problems in food preparation; the study of scientific methods and factors involved in establishing standards for cooked foods. Prerequisite: Chemistry 307 and eight hours of foods. *Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

FRENCH

241-242. INTERMEDIATE FRENCH. For students who have had one year of college French or who have had two years of high school French and pass an appropriate examination. An intensive review of the basic principles of the language and practice in speaking and writing based on readings of moderately difficult prose. The courses are taken in sequence. Prerequisite: French 143, or two years of high school French. *Five class hours a week. Fall and Winter. Credit, five quarter hours each quarter.*

243. FRENCH CONVERSATION AND COMPOSITION. This course is designed to accustom the student to understand, speak, and write conversational French. It is conducted primarily in French. Prerequisite: French 242. *Five class hours a week. Spring. Credit, five quarter hours.*

341-342. SURVEY OF FRENCH LITERATURE. This course begins with the literature of our times and ends with the chanson de geste. Emphasis is placed on such writers as Sartre, Baudelaire, Balzac, Hugo, Rousseau, Moliere, Pascal, Montaigne, Rabelais. Attention is paid to poetry as well as prose. Conducted mainly in French. The courses are taken in sequence. Prerequisite: French 242. *Three class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

343. FRENCH CIVILIZATION. This course, conducted mainly in French, seeks to acquaint the student with the principal contributions of France to Western civilization. Prerequisite: French 242. *Four class hours a week. Credit, four quarter hours.*

344. ORAL COMMUNICATION. This course is conducted entirely in French. Discussion of topics of national and international interest found in French publications and in radio and television programs. Prerequisite: French 243. *Five class hours a week. Credit, five quarter hours.*

441. LITERATURE OF THE XVIIITH CENTURY. The important plays of Corneille, Racine, and Moliere are studied. Lectures, readings, reports and discussions. Conducted in French. Prerequisite: French 342. *Five class hours a week. Credit, five quarter hours.*

442. THE ROMANTIC MOVEMENT. A study of the origins, the history, the principal authors, and the influences of the Romantic Movement. Conducted in French. Prerequisite: French 342. *Five class hours a week. Credit, five quarter hours.*

444. LITERATURE OF THE XXTH CENTURY. Lectures, readings, reports, and discussion of the principal writers and trends of French literature today. Conducted in French. Prerequisite: French 342. *Five class hours a week. Credit, five quarter hours.*

GEOLOGY

221. EARTH SCIENCES. Earth as a planet; features of the globe; rocks and minerals. Natural processes acting on the earth's surface, and the resulting land forms. Includes the composition, movements and displacements of the earth's crust; and the action of streams, waves, wind, atmosphere, glaciers and volcanoes. Ocean action; geologic time and presence of isotopes; our earth's resources. Lecture three hours, lab. four hours. Prerequisites: Advanced standing and some knowledge of physics and chemistry. (May be used to satisfy elective unit in general science, general education and teacher education.) *Credit, five quarter hours.*

300. PRINCIPLES OF GEOLOGY. Identification of rocks and minerals; geological processes such as weathering, erosion, glaciation, earthquakes, volcanoes, mountain building, etc. The earth's interior, introduction to geologic maps and historical aspects of geology. Lecture three hours, laboratory two two-hour periods. No prerequisite. (May be used to satisfy the elective units in general education or teacher education.) *Credit, five quarter hours.*

306. GEOCHEMISTRY AND CRYSTAL CHEMISTRY. Origin and abundance of the elements and isotopes; distribution of elements and isotopes of the earth, oceans, and atmosphere; age of the earth and crustal evolution; phase transformations at pressures and temperatures found in the earth's interior. Chemistry and structure of minerals. Lecture three hours, laboratory two two-hour periods. Prerequisites: Chemistry, Geology 300 and junior or senior standing. *Credit, five quarter hours.*

310. PETROLOGY AND PETROGRAPHY. Composition, distribution and origin of rocks. Laboratory examination of common igneous, metamorphic and sedimentary rocks; use of petrographic microscope, study of metamorphic zoning and physical and mineralogical analysis of sediments. Prerequisite: Geology 300. *Lecture three hours, laboratory four hours. Credit, five quarter hours.*

400. STRATIGRAPHY. Description and genesis of stratified sedimentary rock units. Relationships between the lithology and geometry of these rock units and the tectonic setting. Principles of geologic mapping. Prerequisite: Geology 300. *Lecture three hours, laboratory four hours. Credit, five quarter hours.*

406. STRUCTURAL GEOLOGY AND GEOMORPHOLOGY. Deformation of the earth; causes, mechanics and effects of crustal deformation. Graphical solution of structural problems in the laboratory. Sculpture of the earth's surface by natural processes. Superficial processes and the evolution of land forms. Prerequisites: Geology 300 and trigonometry. *Lecture three hours, laboratory four hours. Credit, five quarter hours.*

490. SEMINAR IN EARTH SCIENCES. Consideration of selected current problems in general geology through reading of geological literature. Topics to be considered will vary depending upon the needs of the students enrolled and the desire of the instructor. Prerequisite: senior standing and consent of the instructor. *Credit, five quarter hours.*

HEALTH EDUCATION

235. PERSONAL AND COMMUNITY HYGIENE. Scientific health facts pertaining to the individual and the community that will enable one to live successfully with himself and others. Prevention and control of communicable diseases. Hygienic factors of the home, school, and community. *Five class hours a week. Credit, five quarter hours.*

300. FIRST AID AND SAFETY. A combined course of materials and methods of first aid; the philosophy of safety education; care and prevention of injuries; integration of safety with other subjects and activities. Practice in the application of first aid methods. *Five class hours a week. Credit, five quarter hours.*

305. THE TOTAL SCHOOL HEALTH PROGRAM. A conceptual approach to health education which enables prospective elementary and secondary teachers to develop skill in identifying and in coping with relevant school and community health problems. Community resources for enriching the curriculum are explored. *Seven class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

HISTORY

300. THE ESSENTIAL DEVELOPMENTS IN THE HISTORY OF THE UNITED STATES AND IN THE HISTORY OF GEORGIA. Designed to acquaint the student with the institutions and traditions of the United States, from the colonial period to the present, and with corollary developments in the history of Georgia. This course satisfies that phase of the Georgia Code which requires instruction in the history of the United States and Georgia. The Constitution phase of the law may be met through satisfactory completion of Social Science 302. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

301. HISTORY OF THE UNITED STATES THROUGH THE JACKSONIAN PERIOD. Beginning with a brief reference to the European background of American culture, major events and developments of the United States from 1492 through the Jacksonian Period are discussed. *Five class hours a week. Fall. Credit, five quarter hours.*

302. HISTORY OF THE UNITED STATES FROM THE JACKSONIAN PERIOD TO 1900. Beginning with the conclusion of the Jacksonian Period, major political, social, and international developments and problems of the United States to 1900 are analyzed. *Five class hours a week. Winter. Credit, five quarter hours.*

303. HISTORY OF THE UNITED STATES SINCE 1900. An analysis of political, social, and international developments of the United States since 1900. Special emphasis is given to recent events. *Five class hours a week. Spring. Credit, five quarter hours.*

308. NEGRO HISTORY. Designed to acquaint the student with the African background of the American Negro. Emphasizes the life and history of the Negro in the United States. *Five class hours a week. Credit, five quarter hours.*

331. HISTORY OF EUROPE FROM THE MIDDLE AGES TO 1815. The Renaissance and the Reformation through the Napoleonic Period. The Revival of Learning; the development of art; discovery and exploration. The beginnings of Protestantism, Catholic Counter Reformation. Assigned reading. Presupposes a course in the history of contemporary civilization. *Five class hours a week. Winter. Credit, five quarter hours.*

332. HISTORY OF EUROPE FROM 1815 TO THE PRESENT. A detailed study of political, social, and economic developments in the principal countries of Western Europe from the Congress of Vienna to the present. *Five class hours a week. Spring. Credit, five quarter hours.*

408. HISTORY OF RUSSIA SINCE 1815. An examination of the major economic and political developments in addition to the various reform movements of Tsarist Russia. Emphasis is placed on the October Revolution and its aftermath. Prerequisites: History 331 and 332 or consent of the instructor. *Five class hours a week. Winter. Credit, five quarter hours.*

409. THE HISTORY OF LATIN AMERICA. An appraisal from both an historical and a contemporary viewpoint of the political, intellectual, social, and economic development of Latin America and its relations with the United States. Prerequisites: History 301 and 302. *Five class hours a week. Fall. Credit, five quarter hours.*

414. HISTORY OF ENGLAND SINCE THE INDUSTRIAL REVOLUTION. An examination of the Industrial Revolution and the various economic, political, and social developments and reforms that were its aftermath. Emphasis is placed on Great Britain and the Empire since World War I. Prerequisites: History 331 and 332 or consent of the instructor. *Five class hours a week. Fall. Credit, five quarter hours.*

415. HISTORY OF THE FAR EAST. An introduction to the civilization and culture of the Far East with special attention to the roles of China, Japan, and India in world affairs during the last century. Prerequisites: History 301, 302, 303, 331, and 332. *Five class hours a week. Spring. Credit, five quarter hours.*

416. INTRODUCTION TO HISTORICAL SEMINAR. Analysis of the sources, and critical methods in evaluating, organizing, and using such materials. Attention to selected outstanding historians and distinctive types of historical writing. Prerequisites: History 301, 302, 303, 331, 332, 408 or 410. *Five class hours a week. Spring. Credit, five quarter hours.*

HOME ECONOMICS

101. INTRODUCTION TO HOME ECONOMICS. Development and scope of home economics as a field of study and its contribution to education for home and family living. Examination of opportunities in the profession and those related to home economics. *One class hour a week. Credit, one quarter hour.*

HUMANITIES

106. ENGLISH COMMUNICATIVE SKILLS. Designed for freshmen whose grade equivalent is below 11.0 on the placement tests. Students whose performance is of a superior nature can qualify for enrollment in English Communicative Skills 108 after completing the requirements of this course. A minimum passing grade of "C" is required in this course. *Five class hours a week and additional laboratory experiences. Fall, Winter, and Spring. Credits, five quarter hours.*

107-108-109. ENGLISH COMMUNICATIVE SKILLS. (Formerly 102, 103, 104.) Designed to develop competence in: (1) reading, writing, speaking, listening, and demonstrating; (2) creative, critical thinking; precision of thought and expression through oral and written reports. A minimum passing grade of C is required in each course. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours each.*

131. INTRODUCTION TO MUSIC AND ART. Designed to integrate experiences in music and art. Various media are used to develop an understanding of musical contributions to daily living and to provide enriching experiences in art. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

141-142-143. ELEMENTARY FRENCH. Intended for students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple, everyday French. The courses are to be taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

151-152-153. ELEMENTARY GERMAN. (Formerly 221-222-223.) For students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple everyday German. The courses are taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

161-162-163. ELEMENTARY SPANISH. These courses are intended for students who have not studied the language previously. The work provides intensive practice in hearing, speaking, reading and writing simple, everyday Spanish. The courses are to be taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

207-208-209. WORLD LITERATURE. (Formerly 201-202.) An interpretation and appreciation, introducing the student to some of the major writers of the world and to the principal literary genres. Required of all students. Prerequisites: Humanities 107-108-109. *Three one-hour discussion periods a week. Credit, three quarter hours each.*

INDUSTRIAL ARTS EDUCATION

201. WOOD PROCESSING I. Care of tools and machinery, basic hand and machine operations, materials selection, and finishing. *Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.*

202. WOOD PROCESSING II. A study of the construction of more advanced projects by the use of power tools and machines, and wood-finishing. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

203. INDUSTRIAL ARTS DESIGN. Fundamentals of design as applied to the planning and construction of industrial arts shop projects. Working drawings are made of projects designed in class. *Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

212. INDUSTRIAL MATERIALS. Sources, methods of refinement and preparation of tools and materials commonly used in industry. *Five class hours a week. Winter. Credit, five quarter hours.*

300. INDUSTRIAL ARTS FOR ELEMENTARY SCHOOLS. Basic industrial tools, materials and processes which find application in elementary schools. *Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.*

301. ARCHITECTURAL DRAFTING. A study of house planning and the making of architectural working drawings. *Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.*

302. POWER MECHANICS. A study of the theory, operation and servicing of small gas, outboard, and automotive engines. Theoretical consideration is given to turbines, jet engines, turbo-jets, and rockets. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

310. INTRODUCTION TO DRIVER EDUCATION. A study of driver and traffic safety education including a critical analysis of traffic accidents, attitude factors, automobile construction, and traffic laws and regulations. Laboratory experiences include psycho-physical testing and behind-the-wheel development of driving skills. *Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.*

312. GENERAL ELECTRICITY. The nature of electricity, magnetism, forms and sources of electricity, conductors, insulators, electrical measurements, simple electrical low voltage and house wiring, and electrical heating. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

320. ADVANCED DRIVER AND TRAFFIC SAFETY EDUCATION. A study of the techniques of organizing, teaching and administering driver and traffic safety education programs at the secondary level. Each enrollee is required to teach at least one learner to drive a car. Prerequisites: Industrial Arts Education 310, a valid Georgia driver's license and at least two consecutive years of successful driving experience free of a multiplicity of accidents or traffic violations. *Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.*

401. INDUSTRIAL ARTS ELECTRONICS I. Test equipment, frequency and audio amplifiers, power supplies, modulation receivers, trouble shooting, and small receiver construction. *Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.*

402. INDUSTRIAL ARTS ELECTRONICS II. F.M. radio receivers, record changers, public address and audio systems and tape recorders. Prerequisite: Industrial Arts Education 255. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

403. SPECIAL INTEREST PROBLEMS. Typical problems related to technical knowledge and the execution of skills as revealed on the field. *Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

405. ADVANCED POWER MECHANICS. A study of a wide variety of power machines with increased emphasis on maintenance. Prerequisite: Industrial Arts Education 302. *Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.*

411. CURRICULUM BUILDING AND SHOP ORGANIZATION IN INDUSTRIAL ARTS EDUCATION. A study of the techniques of curriculum development; shop organization and management. *Five class hours a week. Fall. Credit, five quarter hours.*

413. ELECTRICAL MOTORS. Fundamentals of AC and DC electric motors with emphasis on construction and repair of fractional horsepower motors and devices. Prerequisite: Industrial Arts Education 312. *Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

421. METHODS OF TEACHING INDUSTRIAL ARTS. Lesson plan making, shop demonstrations, use of a variety of instructional media, measuring achievement, and the various methods of teaching industrial arts. *Five class hours a week. Fall. Credit, five quarter hours.*

INSTITUTION MANAGEMENT

319. MARKETING AND BUYING. Production, distribution, and storage of supplies to serve as a basis for purchase of such commodities for quantity use. Includes techniques for buying canned, fresh, frozen, and dried commodities in quantity. Field trips required. *Five class hours a week. Fall. Credit, five quarter hours.*

353. INSTITUTIONAL EQUIPMENT. A study of lay-outs for institutional use; selection of equipment, including materials, construction, installation, care, and relative cost. Field trips required. *Five class hours a week. Winter. Credit, five quarter hours.*

433. ORGANIZATION AND MANAGEMENT. The organization and administration of various types of institutions. Field trip required. *Five class hours a week. Spring. Credit, five quarter hours.*

460. CATERING. Food production, menu making, cost computation, and service for parties. *Two class hours and one two-hour laboratory period weekly. Credit, three quarter hours.*

LIBRARY SCIENCE

301. SCHOOL LIBRARY ADMINISTRATION AND ORGANIZATION. Methods of developing a strongly functioning library as an integral part of the school; routines involved in administration, acquisition, circulation and care of materials; planning the library; public relations and personnel. *Five class hours a week. Credit, five quarter hours.*

302. CATALOGING AND CLASSIFICATION. Designed to provide an introduction to classification and cataloging for modern school libraries; includes the fundamentals of cataloging, classification according to the Dewey Decimal System, the use of subject headings and the principles underlying the selection of books. *Five class hours a week. Credit, five quarter hours.*

401. SCHOOL LIBRARY MATERIALS. The selection and use of books and materials for school libraries. The study of basic aids in selection, book reviewing and annotation, with special attention to the use of books in correlation with the curriculum. *Five class hours a week. Credit, five quarter hours.*

402. BASIC REFERENCE SOURCES. Basic reference tools for the school library and problems in their use; use of such tools as encyclopedias, dictionaries, atlases, bibliographies, and representative handbooks. *Five class hours a week. Credit, five quarter hours.*

MATHEMATICS

106. BASIC MATHEMATICS. A basic requirement for students who do not achieve satisfactorily on the placement examination. The number systems; measurements; equations; formulas; verbal analyses of problems; measurements of angles, triangles, circles and polygons. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

107. COLLEGE ALGEBRA AND TRIGONOMETRY I. This course presents certain topics in algebra and trigonometry in a form that will make them most useful for a later study of analytic geometry and calculus. The system of real numbers, functions, exponential and logarithmic functions, the trigonometric functions, complex numbers. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

108. COLLEGE ALGEBRA AND TRIGONOMETRY II. The complex numbers, the theory of equations, systems of equations, permutations and combinations, the binomial theorem and probability, sequences, inverse functions and trigonometric equations. Prerequisite: Mathematics 107. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

109. PLANE ANALYTIC GEOMETRY. Elementary concepts of plane analytic geometry; the locus derivation and the straight line; introduction to curve sketching; conics, transcendental curves; polar coordinates; parametric equations. Prerequisites: Mathematics 107, 108. *Five class hours a week. Fall and Winter. Credit, five quarter hours.*

212. ANALYSIS I. (Analytic Geometry and Differential Calculus.) Designed to present an integrated approach to analytic geometry and differential calculus. Basic concepts of analytic geometry, graphs and functions, basic concepts of calculus, the derivative, applications to curve tracing, maxima and minima, velocity, acceleration, rates, differentials, approximate values. Prerequisites: Mathematics 107 and 108. *Five class hours a week. Fall. Credit, five quarter hours.*

213. ANALYSIS II. (Analytic Geometry and Integral Calculus.) Integration, the integral as limit of a sum, geometrical applications of integration, physical application, derivatives of trigonometric functions, polar coordinates, conic sections, logarithmic and exponential functions, formal integration. Prerequisite: Mathematics 212. *Five class hours a week. Winter. Credit, five quarter hours.*

214. ANALYSIS III. (Advanced Topics in Calculus.) Introduces the student to the rigor of the calculus and related topics in analysis. Vectors, the law of the mean, indeterminate forms, partial derivatives, lines and planes in space, multiple integrals, infinite series, ordinary differential equations. Prerequisites: Mathematics 212 and 213. *Five class hours a week. Spring. Credit, five quarter hours.*

217. INTRODUCTION TO PROBABILITY AND STATISTICS. The frequency distribution; central tendencies or averages; variability; the frequency curve; correlation; use of tabular and graphic methods of reporting facts; interpreting statistical data. *Five class hours a week. Spring. Credit, five quarter hours.*

306. BASIC COMPUTER PROGRAMMING. This course is designed to provide basic instruction in four areas of computing, numerical analysis, machine language, a symbolic programming system, and the "Formula Translation System." *Three class hours and two two-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours.*

307. BASIC COMPUTER CONCEPTS. Introduces the student to the operation of the 1620 computer. Review of FORTRAN language using subroutines, binary capabilities, machine practice under supervision, and instruction timing. *Three class hours and two two-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours.*

311. MATHEMATICS OF FINANCE. Consumer mathematics for prospective secondary teachers. Ratio, proportion, and percentage applied to commercial problems; compound interest and compound discount; ordinary and other types of annuities; amortization and sinking funds; valuation of bonds; mathematics of depreciation; life annuities and life insurance; income tax returns. *Five class hours a week. Fall. Credit, five quarter hours.*

315. MODERN ALGEBRA. Basic concepts (sets, ordered pairs, product and relations, functions and mapping, binary operations, abstract systems, etc.), the number systems, decompositions of integers, Diophantine problems, congruence, permutations. *Five class hours a week. Fall. Credit, five quarter hours.*

316. MODERN ALGEBRA. Designed to develop further topics in modern algebra. Group rings, domain, fields, polynomial rings, Galois theory. *Five class hours a week. Winter. Credit, five quarter hours.*

318. ADVANCED PROBABILITY. Extension of topics introduced in Mathematics 217, with applications in such fields as education, economics, and finance. Topics include study of sets, probability in finite sample spaces, random variables, binomial distribution and applications, estimating and testing variability, analysis of variance, and decision theory. Prerequisite: Mathematics 217. *Five class hours a week. Fall. Credit, five quarter hours.*

319. LINEAR ALGEBRA. (Formerly 406.) Vectors in the space and in the plane; linear dependence of vectors; vectors over the complex field; geometry of the real vector space; transformation relative to different bases; vector spaces over the complex field. Prerequisites: Mathematics 214 and 315. *Five class hours a week. Winter. Credit, five quarter hours.*

320. THEORY OF EQUATIONS. Complex numbers; elementary theorems on the roots of an equation; constructions with rulers and compasses; cubic and quadratic equations; the graph of an equation; isolation of the real roots; solution of numerical equations; determinants—systems of linear equations; symmetric functions; elimination, resultants and discriminants; fundamental theorem of algebra. *Five class hours a week. Credit, five quarter hours.*

321. INTRODUCTION TO HIGHER GEOMETRY. Designed to give a "modern view" of geometry which includes a critical study of Euclidean geometry treated from an axiomatic viewpoint as well as the study of non-Euclidean postulational systems. *Five class hours a week. Winter. Credit, five quarter hours.*

399. ARITHMETIC FOR ELEMENTARY SCHOOL TEACHERS. Designed to give the prospective teacher substantial knowledge of arithmetic, teaching aids, and practice in modern methods of teaching the subject. Terms used in arithmetic; the four fundamental operations; common and decimal fractions. *Five class hours a week. Spring. Credit, five quarter hours.*

400. MODERN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS. Recent trends in elementary school mathematics. Emphasis on logic, critical thinking, and development of the number system. Review of the fundamentals of arithmetic; visual aids in the teaching of arithmetic. *Five class hours a week. Spring. Credit, five quarter hours.*

401. TESTING AND STATISTICAL ANALYSIS FOR TEACHERS. Designed to give teachers in all fields essential knowledge of tests, experience in administering tests, and practice in evaluating test results according to current standards. *Five class hours a week. Winter. Credit, five quarter hours.*

402. MODERN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS. Modern trends in mathematics curricula, number bases, modular arithmetic, mathematical systems, empirical probability, basic definitions of sets, the use of sets in elementary algebra, the use of deductions in algebra, an introduction to abstract algebra, geometry for junior high schools, structure of a first course in geometry, number scales and perspective, topology. *Five class hours a week. Spring. Credit, five quarter hours.*

404. DIFFERENTIAL EQUATIONS. Differential equations-orders and degree; solutions of differential equations; constants of integration; verification of solutions of differential equations; differential equations of the first order and of the first degree; two special types of differential equations of higher order; linear differential equations of the second order with constant coefficients; compound interest law; applications to problems in mechanics; linear differential equations of the n th order with constant coefficients. Prerequisites: Mathematics 212 and 213. *Five class hours a week. Spring. Credit, five quarter hours.*

409. GENERAL POINT SET TOPOLOGY. Designed to introduce the concepts of point set topology. Course includes introductory set theory, the real line, topological spaces, arcs and curves, partitionable spaces, and the axiom of choice. *Five class hours a week. Spring. Credit, five quarter hours.*

410. INTRODUCTION TO REAL VARIABLE THEORY. This course is designed to provide experiences in the Theory of Dedekind cuts, the existence of g.l.b. and l.u.b. sequences of numbers and various theorems. Topics include numbers and convergence, topological preliminaries, limits, continuity and differentiability, the Riemann Integral, sequences and series, functions of several real variables. *Five class hours a week. Winter. Credit, five quarter hours.*

411. ADVANCED CALCULUS. Fundamentals (Dedekind's and Cantor's theories, Balzorna-Weierstrass theorem, functions of real variable, etc.), sequence, limits and metric space, continuous functions on metric spaces, Heine-Borel theorem, connectedness, compactness and completeness, differentiability and integrability. Prerequisites: Mathematics 213 and 214. *Five class hours a week. Spring. Credit, five quarter hours.*

420. HISTORY OF MATHEMATICS. Development of the science of numbers; trends in mathematics. *Five class hours a week. Fall. Credit, five quarter hours.*

498. NEWTONIAN SEMINAR. This course is designed for students who wish to participate in mathematics seminars for credit. Juniors and seniors. *Fall, Winter, and Spring. Credit, two quarter hours.*

499. MATHEMATICAL RESEARCH. This course is designed for mathematics majors who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor, and the specific content of the course is directed by the supervising instructor. Prerequisite: student must have earned a total of 130 quarter hours, including a minimum of thirty hours in mathematics. *Fall, Winter, and Spring. Credit, one to three quarter hours.*

MECHANICAL TECHNOLOGY

101. ENGINEERING DRAWING I. A study of drawing instruments, lettering, applied geometry, and orthographic projection. *Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.*

102. ENGINEERING DRAWING II. Pictorial drawings, auxiliary views, sections; dimensions. Prerequisite: Mechanical Technology 101. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

103. ENGINEERING DRAWING III. Intersections and developments; working drawings, fasteners; gearing and cams; structural, architectural and topographic drawings. Prerequisite: Mechanical Technology 102. *Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

202. STATICS. A study of Newton's laws, vectors, force systems, equilibrium, friction, and virtual work. Prerequisite: Mathematics 109. *Five class hours a week. Winter. Credit, five quarter hours.*

203. DYNAMICS. A study of kinematics, kinetics, energy, power, momentum, and periodic motion. Prerequisites: Mathematics 212 and Mechanical Technology 202. *Five class hours a week. Spring. Credit, five quarter hours.*

301. MATERIALS AND PROCESSES. A study of some of the more important materials and processes used by modern industries. Prerequisite: Mechanical Technology 103. *Five class hours a week. Fall. Credit, five quarter hours.*

302. KINEMATICS. Graphical and analytical methods used to determine displacements, velocities, and accelerations in mechanisms. Prerequisite: Mechanical Technology 202. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

303. MACHINE DESIGN I. A study of the design of shafts, springs, screws, belts, clutches, brakes, and connections. Prerequisite: Mechanical Technology 302. *Three class hours and two two-hour laboratory periods per week. Spring. Credit, five quarter hours.*

312. METAL PROCESSING I. A study of measurements, laying out, bench metal practices, and other elementary phases of metal processing. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

313. METAL PROCESSING II. A study of lathes, milling machines, shapers, drill presses, grinders, saws, and other machine tools. Prerequisite: Mechanical Technology 312. *Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

321. STRENGTH OF MATERIALS I. A study of loading diagrams, force fields, stress, strain, elastic constants and deflection. Prerequisites: Mathematics 213 and Mechanical Technology 202. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

322. STRENGTH OF MATERIALS II. A study of indeterminate structures, torsion, combined loads, instability, and fatigue. Prerequisite: Mechanical Technology 321. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

323. POWER TRANSMISSION. Design, construction, and maintenance of the devices used to transmit mechanical power in modern automobiles. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

401. MACHINE DESIGN II. A study of lubrication, bearing design, gearing, interference fits, and impact loading; or suitable design problem. Prerequisite: Mechanical Technology 303. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

402. THERMODYNAMICS. Fundamental principles of thermodynamics, with emphasis on applications. Prerequisite: Mathematics 213. *Five class hours. Winter. Credit, five quarter hours.*

403. FLUID MECHANICS. A study of hydrostatics, viscosity, dimensionless constants, meters, gages, and fluid flow in channels and pipes. Prerequisites: Mathematics 213 and Mechanical Technology 203. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

412. AUTOMOTIVE ELECTRICAL SYSTEMS. Design, construction, and maintenance of the electrical and electronic devices used in modern automobiles. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

413. AUTOMOTIVE CHASSIS. Design, construction, and maintenance of the various elements of the modern automotive chassis. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

421. INTERNAL COMBUSTION ENGINES I. A study of fuels, combustion, cycles, engine construction, inertia affects and performance parameters. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

422. INTERNAL COMBUSTION ENGINES II. Design, construction, and maintenance of modern automotive engines. Prerequisite: Mechanical Technology 421. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

MUSIC

(Applied)

100-200-300-400. BAND, CHORAL SOCIETY, or MEN'S GLEE CLUB. These organizations are open for elective credit to all students, but participation by majors in music is required for four years. Majors in elementary education are especially encouraged to enroll. Choral activities include campus church services, vespers, special assembly programs, radio and television commitments, annual concert tours both in and out of the state. Instrumental activities include playing at football games, parades, special programs, and on concert tours. *Fall, Winter, and Spring. Credit, one hour per quarter for five quarters during the freshman and sophomore years. No academic credit during the junior and senior years.*

101-102-103. FUNDAMENTALS OF INSTRUMENTS:

Piano: These courses introduce techniques and basic musical knowledge such as notes, rhythms, time signatures, tempo markings, fingering, and phrasing.

Brass, Woodwind, and Percussion: Basic elements for the brass and woodwinds include embouchure control, breath control, time and key signatures, scales, and phrasing. Percussion players are required to perfect single taps and are introduced to basic drum rudiments.

One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

101-102-103. FUNDAMENTALS OF VOICE. Vocal technique, diction, breathing and posture are stressed and applied to songs with specific vocal problems. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

104-105-106, 204-205-206, 304-305-306, 404-405. APPLIED MAJOR AREA. These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

201-202-203. INTERMEDIATE INSTRUMENTS:

Piano: A continuation of Music 101-102-103. Such skills as memorization, sight-reading, harmonization, and transposition will be additional goals.

Brass, Woodwind, and Percussion: A continuation of the basic elements and techniques. An introduction to solo and chamber music is made. Percussion players will commence study on other instruments such as snare, bass, and kettle drums.

One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

201-202-203. INTERMEDIATE VOICE. This course continues the development of Music 101-102-103. More particular attention is given to understanding the oratorio, cantata, recitative, and German lieder. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

301-302-303. ADVANCED INSTRUMENTS:

Piano: Students are expected to cover more advanced materials and display certain technical skills. The development of repertoire will be stressed.

Brass, Woodwind, and Percussion: Emphasis is placed on building a music library of concert materials and methods. Wind instrument players will study single, double, and triple-tonguing. Percussion players will develop their ability to execute with facility and will study various percussion instruments of definite pitch.

One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.

301-302-303. ADVANCED VOICE. The continuation of vocal technique studied in previous courses. Vocal forms in several languages will be introduced. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

401-402. SENIOR INSTRUMENTS:

Piano: Concert repertoire and public performances will be stressed.

Brass, Woodwind, and Percussion: Continued emphasis is placed on building a music library, concert material, and methods. Stress is placed on complete mastery in playing and on public performances.

One class hour per week. Fall and Winter. Credit, one quarter hour each quarter.

401-402. SENIOR VOICE. During this year the student will concentrate primarily on perfecting his repertoire. *One class hour per week. Fall and Winter. Credit, one quarter hour each quarter.*

(Conducting)

407-408. CONDUCTING (Instrumental or Choral). A study of the techniques necessary for conducting instrumental and choral organizations. *Three class hours per week. Fall and Winter. Credit, three quarter hours each quarter.*

(History)

314-315. HISTORY AND LITERATURE OF MUSIC. A survey of the history of music from the beginning of the Christian era to the present. Emphasis is placed upon a study of representative works by major composers, together with a comprehensive analysis of style and musical development in their countries. *Five class hours per week. Fall and Winter. Credit, five quarter hours each quarter.*

(Music Education)

300. FUNDAMENTALS OF ELEMENTARY SCHOOL MUSIC. A course in notation, scales, key signatures, intervals, ear-training, and sight-singing. Special attention is given to these elements as they apply to children's songs. Required for majors in Elementary Education. *Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours.*

301. PUBLIC SCHOOL MUSIC—ELEMENTARY GRADES. The singing of rote songs, the making of rhythm band instruments, playing flutes, playing the autoharp and melody bells, conducting, writing units, and making a scrapbook are some of the activities in this course. Prerequisite: Music Education 300. Required for majors in Elementary Education. Recommended elective for music majors. *Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours.*

308. HIGH SCHOOL MUSIC. A study of methods and materials for teaching music in High School. *Four class hours per week. Spring. Credit, four quarter hours.*

(Theory)

111-112-113. THEORY I. (Ear-Training and Sight-Singing.) A course in notation, time signatures, key signatures, major and minor scales, intervals, melodic and rhythmic problems, song reading, and musical dictation. *Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours each quarter.*

211-212-213. THEORY II (Harmony). A continuation of Theory I with a study of modulations, advanced chords, harmonization of melodies, and analyses of standard compositions. *Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours each quarter.*

307. ORCHESTRATION AND INSTRUMENTATION. A study of the range, playing techniques and musical characteristics of all instruments with emphasis upon the orchestral score and the writing of music for instrumental ensembles. *Five class hours per week. Fall. Credit, five quarter hours.*

311. THEORY III (Form and Analysis). A study of the construction of music from the eighteenth century to the present, including the harmonic and melodic analyses of pieces by major composers. *Five class hours per week. Spring. Credit, five quarter hours.*

411. THEORY IV (Counterpoint and Composition). A course designed to give creative experiences in contrapuntal and compositional techniques in various forms of music. *Five class hours per week. Fall. Credit, five quarter hours.*

NUTRITION

316. NORMAL NUTRITION. A study of the science of nutrition and its application to the nutritional requirements of individuals at various age levels. Practical problems in dietary calculations. Prerequisite: Chemistry 307. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

351. NUTRITION AND DIETETICS. The chemistry of nutrition in relation to metabolic processes. Prerequisite: Nutrition 316. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

451. DIET THERAPY. Hospital administration as related to hospital dietetics. Application of principles of nutrition to the normal diet and to abnormal conditions; planning and preparation of special diets. Prerequisite: Nutrition 351. *Two class hours and three two-hour laboratory periods a week. Field work in hospitals to be arranged. Spring. Credit, five quarter hours.*

452. NUTRITION FOR CHILDREN. The study of normal growth patterns and the principles involved in meeting the nutritional requirements of preschool and early school age children. Laboratory work in nursery school and elementary school lunchroom. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

455. FIELD WORK IN NUTRITION. Opportunities to observe and participate in the activities of welfare and public health agencies with problems relating to the promotion of better nutrition and the general welfare of individuals and selected groups. Field problems arranged. *One class hour and two two-hour laboratory field trips a week. Winter and Spring. Credit, three quarter hours.*

461. METHODS OF TEACHING NUTRITION. Techniques and materials for presenting instruction in nutrition to persons of all age levels. Practical experience in presenting materials provided through work with elementary school teachers and pupils. Prerequisite: senior status, consent of instructor. *Three class hours a week. Winter. Credit, three quarter hours.*

463. NUTRITION SEMINAR. Critical study of historical and current literature on energy metabolism, proteins, fats, carbohydrates, and vitamins. Prerequisite: Nutrition 351. *Two class hours a week. Spring. Credit, two quarter hours.*

OFFICE ADMINISTRATION

201. ELEMENTARY TYPEWRITING. Introduction to the keyboard and touch typewriting. Emphasizes the proper technique of machine operation and control. Introduces speed and accuracy; attractive arrangement of copy; and simple tabulation. Minimum standard for passing: 30 words per minute on timed writings. Students with previous training in this area may waive the elementary course by passing a qualifying examination. *Five laboratory hours per week. Fall, Winter, and Spring. Credit, two quarter hours each quarter.*

202-203. INTERMEDIATE TYPEWRITING. Skill development in typewriting. Business letter writing, forms development, intensive tabulation, and formal reports. Minimum passing speeds: 40 words per minute for 202 and 50 words per minute for 203. *Three class hours a week. Credit, two quarter hours each.*

300. OFFICE MACHINES. (Same as BAD 300.) Acquaintanceship, proficiency, and expert levels of development on five basic classes of machines: Adding and Calculating; copy preparation; duplicating; keypunching; and transcribing. *Six laboratory hours per week. Credit, five quarter hours.*

301. ADMINISTRATIVE OFFICE PRACTICE. A course dealing with office practice, subject-matter, and procedures commonly used in business offices; laboratory in stenographic methods and office machines. Prerequisites: shorthand and typing—one year of each. *Three class hours a week. Credit, three quarter hours.*

302. ADVANCED TYPEWRITING. Continued emphasis on mastery of the typewriter. Writing business letters, copying from rough drafts, tabulating complex material, and stenciling. Minimum standard for passing at the end of the course, 45 and 50 words per minute, respectively, on continuous copy for ten minutes with a maximum of five errors. *Five class hours a week. Fall and Winter. Credit, four quarter hours.*

311-312. ELEMENTARY SHORTHAND. (Formerly 211-212.) Beginning courses in Gregg Shorthand, giving a fundamental background in reading and writing shorthand notes. Minimum standard for passing at the end of each course, 40 and 60 words per minute, respectively, for three minutes with 95 per cent accuracy. *Five class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

313. INTERMEDIATE SHORTHAND. (Formerly 213.) Continuation of 312 with added emphasis on dictation and transcription of simple letters and documents. Minimum standard for passing at the end of the course, 80 words per minute for three minutes with 95 per cent accuracy. *Five class hours a week. Spring. Credit, three quarter hours.*

OAD 401. PRINCIPLES OF DATA PROCESSING. An introduction to modern methods of processing data; includes principles of unit record systems and an introduction to computer science. (Same as BAD 301.) *Three class hours a week. Credit, three quarter hours.*

OAD 402. IBM KEYPUNCH. Intensive training in the operation of IBM Key punch machines. Includes instruction on program control, punching computer programs, the development of speed and accuracy in punching and verifying. *Six laboratory hours a week. Credit, two quarter hours.*

412. ADVANCED SHORTHAND AND TRANSCRIPTION. (Formerly 312.) Development of speed and accuracy in transcribing shorthand notes. Gregg tests and standards used. Minimum passing standard for passing at the end of course, 100 words per minute for three minutes with 95 per cent accuracy. Prerequisite: one year (or equivalent) of Gregg Shorthand. *Five class hours a week. Fall quarter. Credit, three quarter hours.*

413. ADVANCED SHORTHAND AND TRANSCRIPTION. (Formerly 313.) Dictation and transcription of shorthand notes at increased rates; congressional, medical, military, and other pertinent dictation material, as well as office-style dictation. Gregg tests and standards used. Minimum standard for passing at the end of course, 120 words per minute for three minutes with 95 per cent accuracy. Prerequisite: Secretarial Science 412. *Five class hours a week. Winter quarter. Credit, three quarter hours.*

425-426. OFFICE MANAGEMENT AND INTERNSHIP. An intensive study of procedures in administrative office management, together with laboratory experiences in which the student is employed in an office for integrated experiences "on the job." Assignments arranged through the Chairman of the Division. *Five two-hour laboratory periods a week or equivalent. Credit, five quarter hours each quarter.*

PHILOSOPHY

300. INTRODUCTION TO PHILOSOPHY. An introductory course designed to explore the efforts which man has made in the western world to understand himself and his relation to his natural and social worlds. Primary emphasis upon epistemology and metaphysics. *Five class hours a week. Fall. Credit, five quarter hours.*

301. LOGIC. Traditional exposition of deductive and inductive logic. *Five class hours a week. Winter. Credit, five quarter hours.*

302. ETHICS. Problems of life treated with reference to the philosophical foundations of morality; the character of the individual; contemporary social, political, and economic trends. *Five class hours a week. Spring. Credit, five quarter hours.*

303. PHILOSOPHIES OF SOCIAL REFORM. An examination of the presuppositions underlying social and political ideologies, with especial emphasis upon liberalism and reformism. Open to juniors and seniors. *Three class hours a week. Credit, three to five quarter hours. (Students who wish to earn five credits will complete a major project.)*

304. PHILOSOPHY OF EDUCATION. An examination of the philosophical presuppositions that underlie traditional and current views of education, its nature, function, and end. *Credit, three to five quarter hours. (Students who wish to earn five credits will complete a major project.)*

305. PHILOSOPHY OF LAW. The philosophical basis of legal concepts. No prerequisite, although courses in the social sciences and philosophy are recommended. *Five class hours a week. Spring. Credit, five quarter hours.*

350. PROBLEMS IN PHILOSOPHY. Natural Right; The Problematic History of an Idea, from Plato to Martin Luther King. A central problem in the history of ethical, political and metaphysical philosophy will be studied. *Five class hours a week. Winter. Credit, five quarter hours.*

PHYSICAL EDUCATION AND RECREATION

111 (W). FUNDAMENTALS OF VOLLEYBALL, TOUCH FOOTBALL, AND GAMES OF LOW ORGANIZATION; TUMBLING AND APPARATUS. *Two class hours a week. Credit, one quarter hour.*

113 (W&M). SEASONAL ACTIVITIES. *Two class hours a week. Credit, one quarter hour.*

211 (W). TEAM ACTIVITY IN VOLLEYBALL, TOUCH FOOTBALL, SHUFFLEBOARD. *Two class hours a week. Credit, one quarter hour.*

212 (W). BASKETBALL, SOCCER, RHYTHMICAL ACTIVITIES. *Two class hours a week. Credit, one quarter hour.*

213 (W). ARCHERY, TENNIS. *Two class hours a week. Credit, one quarter hour.*

111 (M). FUNDAMENTALS OF FOOTBALL, VOLLEYBALL, TUMBLING AND APPARATUS. *Two class hours a week. Credit, one quarter hour.*

211 (M). ARCHERY, VOLLEYBALL, TUMBLING. *Two class hours a week. Credit, one quarter hour.*

212 (M). BASKETBALL, SOCCER. *Two class hours a week. Credit, one quarter hour.*

213 (M). ARCHERY, TENNIS. *Two class hours a week. Credit, one quarter hour.*

233. ELEMENTARY MASS ACTIVITY. Explanation and grouping of simple games, stunts, self-testing activities, and rhythms that fit the needs of the elementary school child. *Three class hours a week. Credit, three quarter hours.*

235. INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION. Orientation to careers and the personal and professional qualifications needed by students planning to enter the field. Philosophy and principles underlying the best modern practices in education; practical suggestions and intensive study to provide a functional understanding of health, physical education, and recreation programs. *Five class hours a week. Credit, five quarter hours.*

301. PHYSIOLOGY OF MUSCULAR ACTIVITY. A comprehensive study of the systems of the body as they are affected by activity. Prerequisite: basic knowledge of biology and anatomy. *Five class hours a week. Credit, five quarter hours.*

302. SOCIAL AND SQUARE DANCING. *Two class hours a week. Credit, two quarter hours.*

304. APPLIED ANATOMY. Essentials of anatomy and physiology; study of structure as essential to understanding of function; importance of the muscular system and joints; the erect and moving metabolism of the body; pathological conditions in every-day life. *Five class hours a week. Credit, five quarter hours.*

305. CORRECTIVE PHYSICAL EDUCATION. A comprehensive view of the significance of exercise in the educative process and in treatment of abnormal or diseased conditions. *Three class hours a week. Credit, three quarter hours.*

310. COMPENDIUM IN PHYSICAL EDUCATION. (Majors and minors only.) Sports, games, and activities are presented to the students in an atmosphere which will allow for maximum instruction and guidance. Equipment and facilities are available so that individual instruction is available. *One class hour a week. Credit, one quarter hour.*

316. INTRAMURAL AND RECREATIONAL ACTIVITIES. Problems peculiar to intramurals organization, motivation, desirable activities, schedules, reports, and awards. *Five class hours a week. Credit, five quarter hours.*

317. COMMUNITY PLAY, RECREATION AND CAMP COUNSELING. An historical background of the present play movement; the theoretical explanation of play; the need for play in modern life; its place in education; the administration and organization of play; camp counseling. *Five class hours a week. Credit, five quarter hours.*

321. BEGINNER'S SWIMMING. To equip the individual with basic water safety skills and knowledge in order to make him reasonably safe while in, on, or about the water. *Two class hours a week. Credit, one quarter hour.*

322. ADVANCED BEGINNER'S SWIMMING. To increase the watermanship of the individual by adding to the skills learned in Beginner's Swimming; To afford the student with an opportunity to experience continued success in a reasonable period of time and thus motivate him to continue his water safety training; To prepare the student for additional water safety training by introducing him to a series of skills designed to improve his stamina and basic coordination. *Two class hours a week. Credit, one quarter hour.*

323. INTERMEDIATE SWIMMING. To provide the student with the opportunity to learn the elements of good swimming. *Two class hours a week. Credit, one quarter hour.*

403. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. Testing and measuring the student's work, the literature of the field, presentation of results in clear and usable form. *Five class hours a week. Credit, five quarter hours.*

410-411. COACHING AND OFFICIATING I AND II. Theory and psychology of coaching and officiating sports and games in schools and colleges. Comparison of the various methods of coaching and practical application of techniques of officiating. *Three class hours a week, two quarters. Credit, three quarter hours each quarter.*

415. ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION, AND RECREATION. The basic principles in organizing programs; state and legal aspects; medical problems; maintenance of athletic equipment; motivating interest by publicity programs; budgeting and financing the work; equipping and managing the office. *Five class hours a week. Credit, five quarter hours.*

420. MECHANICAL ANALYSIS. A study of forces in muscles, bones, and joints, as related to externally applied loads. Muscle testing against externally applied forces of varying degrees of magnitude. Analysis of positions and the arrangement of bodily alignment. *Five quarter hours a week. Credit, five quarter hours.*

430. PROGRAMMING AND IMPLEMENTATION IN PHYSICAL EDUCATION. Selection, interpretation, arrangement, and execution of activities for maximum experiences in the modern physical education programs. Special emphasis is placed on the survey and evaluation of materials and the application of effective arrangements and procedures. *Five class hours a week. Credit, five quarter hours.*

440. NEW DIMENSIONS AND DYNAMICS IN HEALTH PRACTICES. The purpose of this course is to identify the facts, principles and concepts of the behavioral and natural sciences that pertain to helpful living. *Five class hours a week. Credit, five quarter hours.*

450. LEGAL ASPECTS OF PHYSICAL EDUCATION AND ATHLETICS. Individual and group responsibility for particular activities with legal restrictions associated with such activities. Statutes versus court judgement. Legal precedents and litigations. Tenets of immunity, variations in interpretation and court actions. *Five class hours a week. Credit, five quarter hours.*

PHYSICAL SCIENCE

203. PHYSICAL SCIENCE. A concise course for students who elect two courses in biological science and one course in physical science to satisfy the general science requirement for graduation. *Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.*

PHYSICS

201. GENERAL PHYSICS. An introduction to mechanics and heat. Emphasis is placed upon concepts and the methods used by physicists to understand and correlate physical processes. Students enrolled in this course should have command of algebra and trigonometry. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

202. GENERAL PHYSICS. Wave phenomena as sound and light are investigated. Prerequisite: Physics 201. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

203. GENERAL PHYSICS. Magnetism, electricity, and some aspects of modern physics (atomistics) are covered. Prerequisite: Physics 202. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

306. ADVANCED MECHANICS AND HEAT*. Prerequisites: Mathematics 212, 213. *Two class hours and two two-hour laboratory periods a week. Fall. Credit, four quarter hours.*

307. ILLUMINATION AND OPTICS*. Prerequisites: Mathematics 212, 213. *Two class hours and two two-hour laboratory periods a week. Winter. Credit, four quarter hours.*

308. MAGNETIC AND ELECTRICAL MEASUREMENTS*. Prerequisites: Mathematics 212, 213. *Two class hours and two two-hour laboratory periods a week. Spring. Credit, four quarter hours.*

310. MATHEMATICAL PHYSICS. (Formerly Physics 300.) Designed to develop an understanding of the concrete relationship between those factors that contribute to various particular phenomena; qualitative and quantitative relationships. Prerequisites: Mathematics 212, 213, 404. *Five class hours a week. Credit, five quarter hours.*

312. INTRODUCTION TO ELECTRONICS. Testing basic components of electronic circuits—tubes, transistors, relays, capacitors, inductors, transformers, microphones, etc.; constructing and testing radio receivers, transmitters, amplifiers, power supplies, and control apparatus; work with vacuum tube voltmeters, frequency generators, oscilloscopes tube testers, field strength meters, etc. *Two class hours and two (or three) two-hour laboratory periods a week. Credit, four (or five) quarter hours.*

410. MODERN PHYSICS. Recent advances in atomic and nuclear physics. Prerequisite: Calculus, six to ten quarter hours; advanced physics, four or more quarter hours. Prerequisites: Mathematics 212, 213. *Four class hours a week. Fall. Credit, four quarter hours.*

POLITICAL SCIENCE

200. GOVERNMENT. Provides a general understanding of the concepts, functions, and operations of government (international, national, state, and local), and a basis for development of desirable attitudes, critical thinking, and intelligent participation in political affairs. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

*Courses 306, 307, 308, and 312—given in alternate years—provide more extensive investigations in the various areas of physics. Mathematics requirements for these courses are: five hours of college algebra and five hours of trigonometry. Calculus may be used but is not required.

303. INTERNATIONAL POLITICS. It is a survey study of the basic factors which motivate international relations, including power politics, ideology, and nationalism. It is concerned with: the causes of war, the international organization, world government, and diplomacy. Special emphasis is placed on case studies, independent study, reading, research, and writing. Prerequisite: Political Science 302 or special permission. *Five class hours a week. Spring. Credit, five quarter hours.*

304. COMPARATIVE GOVERNMENT AND POLITICS. This course stresses the institutional, political, and cultural differences and similarities between various countries and blocs of countries. Special emphasis is placed on various case studies in Western Europe, the Soviet Bloc, and the developing areas of Latin America, Africa, and Asia. Independent study, readings, research and writing are stressed. Prerequisites: Political Science 302 and 303 or special permission. *Five class hours a week. Winter. Credit, five quarter hours.*

310. STATE GOVERNMENT. A survey of the nature, organization, and problems of the state and local government and administration in the United States. *Five class hours a week. Fall. Credit, five quarter hours.*

311. AMERICAN CONSTITUTIONAL LAW. The evolution of American Courts; the development and application of American Constitutional Law, as interpreted in the leading decisions of the Supreme Court. Included are citizenship, the war powers, taxation, the commerce power, the impairment of contracts, due process of law, the civil liberties of individuals and groups, and the equal protection of the law. Recent trends in constitutional doctrine. No prerequisite. *Five class hours a week. Spring. Credit, five quarter hours.*

403. POLITICAL THEORY. This course describes and analyzes significant theories and ideas underlying past and contemporary political systems. Leading topics of study and discussion are the influence upon political theory of Greek thought, the Roman doctrine of natural law, the church and state in the Middle Ages, and Machiavelli and the rise of the modern state. Prerequisite: Social Science 102 or special permission. *Five class hours a week. Fall. Credit, five quarter hours.*

404. POLITICAL THEORY. A continuation of Political Science 403. It emphasizes also the nature of liberalism, individualism, conservatism, state welfarism, fascism, national socialism, and communism. Abstract and philosophical thinking on the part of the student is stressed. *Five class hours a week. Winter. Credit, five quarter hours.*

405. THE AMERICAN POLITICAL PROCESS. This is an inquiry into the functioning of the American political system, and the theories behind it. Stress is placed on federalism, political parties and pressure groups and their relationship to the federal structure, and the causes of political behavior in American life. Independent study, readings, research, and writing, are stressed. Prerequisite: Political Science 302 or special permission. *Five class hours a week. Winter. Credit, five quarter hours.*

SOCIAL SCIENCES

101. HISTORY OF WESTERN CULTURE. Study of oriental and classical backgrounds; medieval feudalism; the rise and influence of Christianity; Saracen civilization; transition to modern modes of life; Renaissance and Reformation to 1600. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

102. HISTORY OF WESTERN CULTURE. From 1600 to the present. Religious wars; the rise of national states; commercial, industrial, scientific, and intellectual revolutions; extension of democracy and world organizations. Special consideration is given to the communist versus the democratic way of life. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

111. WORLD AND HUMAN GEOGRAPHY. Man's relationship to his natural, physical and cultural environment; world patterns of population, climate, and industrial development; problems of agriculture, commerce, trade, transportation, and communication; conservation of natural resources. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

201. PSYCHOLOGICAL BASIS FOR HUMAN BEHAVIOR. Introduces the student to psychology as the science which studies the behavior and experience of living organisms, and specifically human behavior and experience. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

420. DEMOCRACY VERSUS COMMUNISM. A background of Russian history to the Revolution of 1917; political, economic, social, and geographic factors which have played a part in the historical development of communism in the USSR and democracy in the United States. *Five class hours a week. Spring. Credit, five quarter hours.*

SOCIOLOGY

201. INTRODUCTION TO SOCIOLOGY. An analysis of the development of human group life; structure of the social environment and its influence upon the individual's behavior. *Five class hours a week. Fall. Credit, five quarter hours.*

203. MODERN SOCIAL PROBLEMS.* Analysis of the causes of poverty, disease, crime, family disintegration, and personality maladjustments; preventive measures for human problems. *Five class hours a week. Fall. Credit, five quarter hours.*

302. CRIMINOLOGY I.* The sociological approach to crime. An investigation of the causes, nature, and extent of crime and the policies used in dealing with crime and the criminal. *Five class hours a week. Winter. Credit, five quarter hours.*

305. THE FAMILY. The role of the family in the development of the individual, current psychological, economic, social, educational, and ethical problems of marriage and family life. Prerequisite: Sociology 201. *Five class hours a week. Spring. Credit, five quarter hours.*

306. RACE, POVERTY AND THE LAW. This course will explore the scope and nature of the law applicable to the poor. Moreover, it will emphasize the relationship of poverty and race to crime and the special needs that legal services can render to make more efficacious justice in America. *Five class hours a week. Fall. Credit, five quarter hours.*

307. INTRODUCTION TO GROUP DYNAMICS. Study of social group formation, the interdependent psychological relationships of group members, and trends in reciprocity between attitudes, values, and norms towards the attainment of group consciousness and cohesiveness; emphasis is focused on intragroup consciousness and intergroup conflict involving social action and counter action. *Five class hours a week. Winter. Credit, five quarter hours.*

308. TECHNIQUES OF SOCIOLOGICAL RESEARCH. Techniques used in social research; case study, historical, logical, ecological, and statistical, their application to social data. Prerequisites: Sociology 201, 203. *Five class hours a week. Spring. Credit, five quarter hours.*

454. HISTORY OF SOCIAL THOUGHT.* A consideration of the development of sociological theories from classical to modern times, with special emphasis on recent and contemporary theories in Europe and America. *Five class hours a week. Winter. Credit, five quarter hours.*

*Enrollment restricted to juniors and seniors.

455. INTRODUCTION TO SOCIAL WORK. An orientation course dealing with case work, group work, social services, social welfare, correctional services, and social welfare planning. Prerequisites: Sociology 201, 305. *Five class hours a week. Fall. Credit, five quarter hours.*

459. CULTURAL ANTHROPOLOGY. Anthropological theories and their application to principles and techniques used in the comparative study of culture, including a survey of human development, and contemporary aboriginal culture. Prerequisite: Sociology 201. *Five class hours a week. Spring. Credit, five quarter hours.*

460. SOCIOLOGICAL PERSPECTIVES ON BLACK EXPERIENCE IN THE UNITED STATES. Study of historic and current trends in selected sociological frames of reference of experiences encountered by black people in the United States, emphasizing social movements and social change, urban and institutional processes, social values and personality formation. *Five class hours a week. Fall. Credit, five quarter hours.*

461. THE SOCIOLOGY OF BLACK CULTURE. Study of the "ways" and "whys" of black behavior and the contributions of black people to the "progress" of mankind, emphasizing historic and current cultural developments in Africa, South America, and the United States. *Five class hours a week. Winter. Credit, five quarter hours.*

462. THE BLACK MAN IN THE THIRD WORLD. Study of social, political, and economic problems and processes in which black people are involved in "the third world" with attention focused on Africa, South America, and the United States. *Five class hours a week. Spring. Credit, five quarter hours.*

SPANISH

261-262. INTERMEDIATE SPANISH. For students who have had one year of college Spanish, or who have had two years of high school Spanish and pass an appropriate examination. An intensive review of the basic principles of the language; practice in speaking and writing based on readings of moderately difficult prose. The courses are taken in sequence. Prerequisite: Spanish 163, or two years of high school Spanish. *Five class hours a week. Fall and Winter. Credit, five quarter hours each quarter.*

263. SPANISH CONVERSATION AND COMPOSITION. The main purpose is to accustom the student to understand, speak, and write conversational Spanish. It is conducted mainly in Spanish. Prerequisite: Spanish 262. *Five class hours a week. Spring. Credit, five quarter hours.*

361-362. SURVEY OF SPANISH LITERATURE. These courses introduce the student to some of the principal authors, literary compositions, and ideas in the literature of Spanish-speaking countries. Conducted mainly in Spanish. The courses are taken in sequence. Prerequisite: Spanish 262. *Three class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

363. SPANISH CIVILIZATION. This course, conducted mainly in Spanish, seeks to acquaint the student with the principal contributions of Spain to Western civilization. Prerequisite: Spanish 262. *Four class hours a week. Credit, four quarter hours.*

364. ORAL COMMUNICATION. In this course the student further develops his ability to understand and to speak the language. Discussion of topics of national and international interest found in the news media and in Spanish magazines. Conducted in Spanish. Prerequisite: Spanish 263. *Five class hours a week. Spring. Credit, five quarter hours.*

461. LITERATURE OF THE GOLDEN AGE. Lectures, readings, reports and discussions on the principal authors of the XVIth and XVIIth centuries. Conducted in Spanish. Prerequisite: Spanish 362. *Five class hours a week. Winter. Credit, five quarter hours.*

462. LITERATURE OF THE XIXth CENTURY. A study of the principal figures of the century in the novel, drama and poetry—with special attention to Modernism, Regionalism, Realism and Romanticism. Conducted in Spanish. Prerequisite: Spanish 362. *Five class hours a week. Winter. Credit, five quarter hours.*

463. SPANISH-AMERICAN LITERATURE. A study of the principal authors and literary forms in the literature of Spanish America from the present to its beginnings in the colonial period. Conducted in Spanish. Prerequisite: Spanish 362. *Five class hours a week. Fall. Credit, five quarter hours.*

TEXTILES AND CLOTHING

152. ELEMENTARY TEXTILES. Study of the fundamental weaves, yarns, fibers, colors and finishes with reference to selection and care of fabrics for clothing and the home. *Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

231. PATTERN CONSTRUCTION AND DESIGN. The study of the construction and design of the flat pattern and methods of alteration. Construction techniques in relation to fabric design and kind; special types of fibers and fabrics and their application to garment construction. Prerequisite: T & C 152. *Two class hours and three two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

315. FAMILY AND CHILDREN'S CLOTHING. Designed to help students gain further experience with clothing problems in families, with special emphasis on the changing needs of growing children; selection, construction, remodeling, and repair of clothing. *Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

351. DRESSMAKING AND TAILORING. (Formerly T & C 400.) Advanced clothing construction including principles and practices involved in the tailored suit and dress. Three garments required with emphasis on workmanship. Prerequisites: T & C 152, 231. *Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

355. DRAPING AND DRESS DESIGN. Intended to develop skill in the draping of garments. Designs from original sketches. Prerequisites: Art 130, 232; T & C 231, 351, or equivalents. *Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

357. BEGINNING TAILORING. A course designed to introduce students to tailoring techniques for soft finished garments. Prerequisite: T & C 351. *Two three-hour laboratory periods and two one-hour lecture periods. Junior level. Fall or Winter. Credit, five quarter hours.*

358. ADVANCED TAILORING. Continuation of methods in T & C 351 with construction of coat, suit and dress. Hand details and original design for problem and techniques. Prerequisite: T & C 351. *Two lectures and three two-hour laboratory periods. Credit, five quarter hours. Winter or Spring.*

450. ADVANCED TEXTILES. A study of factors which predetermine fabric appearance and performance in use. Analysis based on appropriate physical and chemical tests for quality differences in fabrics due to variation of fibers, content, structure, and finishes. Suitability of fabrics for specified uses. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

457. TEXTILES AND HOME FURNISHINGS. A study of the factors related to the materials, selection, comparative cost, performance and care of textiles and fabrics used in home furnishings. Prerequisites: T & C 152; Art 232, 330. *Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

465. FIELD PROBLEMS IN CLOTHING AND MERCHANDISING. Practical experience for textiles and clothing majors to obtain training in merchandising and commercial procedures for local and chain store operation. *One class hour and four two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

TRADE AND INDUSTRIAL EDUCATION

100-200-210-300. COOPERATIVE INDUSTRIAL WORK EXPERIENCE. Student works in industry under the supervision of a college coordinator to gain practical work experience. *Credit, five quarter hours per course.*

213. VOCATIONAL GUIDANCE. A study of the meaning, purposes, techniques, and problems of vocational guidance. *Five class hours a week. Spring. Credit, five quarter hours.*

301. HISTORY OF VOCATIONAL EDUCATION. A study of the development of vocational industrial education in the United States with emphasis on personalities and economic and technical developments that influenced its growth. *Five class hours a week. Fall. Credit, five quarter hours.*

302. INDUSTRIAL EDUCATION CURRICULUM. A study of course making and curriculum development with emphasis on organizing instructional materials for vocational industrial education programs. *Five class hours a week. Winter. Credit, five quarter hours.*

303. SHOP MANAGEMENT. A study of the sources of materials, means of purchasing, methods of inventorying; systems of arranging, installing, maintaining, storing and issuing shop tools and equipment. *Five class hours a week. Fall. Credit, five quarter hours.*

311-313-401-402-403. OCCUPATIONAL COMPETENCY EXAMINATION. Graduates of Vocational-technical schools and others with occupational competency in an appropriate trade and industrial teaching field may receive credit by successfully passing occupational competency examinations. *Credit, five quarter hours per course.*

323. OCCUPATIONAL ANALYSIS. A study of the techniques of defining, identifying, classifying, organizing and expressing essential teachable elements of occupations for instructional purposes. *Five class hours a week. Spring. Credit, five quarter hours.*

410. INSTRUCTIONAL AIDS. This course is designed to motivate and teach trade and industrial education teachers to design, construct, and use all types of instructional aids which will facilitate teaching and learning in vocational education. *Five class hours a week. Credit, five quarter hours.*

412. INDUSTRIAL HYGIENE. A study of industrial accidents and their social and economic consequences. Special consideration is given industrial safety. *Five class hours a week. Winter. Credit, five quarter hours.*

416. MODERN TECHNIQUES OF EVALUATION. A study of teacher-made and standardized psychological achievement and personality tests, and the statistical methods employed in their use. *Five class hours a week. Credit, five quarter hours.*

421. METHODS OF TEACHING INDUSTRIAL SUBJECTS. A study of the techniques of making lesson plans, giving shop lectures and demonstrations, writing instruction sheets using a variety of instructional media, and measuring student achievement in trade and industrial education. *Five class hours a week. Fall. Credit, five quarter hours.*

GRADUATE STUDIES

Under the authority granted the institution by the Board of Regents in 1967, Savannah State College offers courses and related experiences leading to the degree of Master of Science. At the present time only the degree of Master of Science in Elementary Education may be pursued.

Administration of Graduate Study

The Graduate Council has the general responsibility for legislative and policy-making functions related to the graduate program. The Council is composed of the Chairman of the College Divisions, three members of Division of Education Staff, two department heads, two members elected by the faculty, and the Director of Graduate Studies, who serves as Chairman of the Council; Division Chairmen hold permanent membership on the Council. Other members are appointed or elected for two-year terms. The Dean of Faculty holds ex-officio membership. The following persons are members of the Graduate Council for the present year:

Coleridge A. Braithwaite
J. B. Clemmons
Elmer J. Dean
James A. Eaton, Chairman
Ida J. Gadsen
Clyde W. Hall
Dorothy C. Hamilton
Thelma M. Harmond, Ex-officio

Prince A. Jackson
Howard M. Jason
Govindan K. Nambiar
Herbert A. O'Keefe
Margaret C. Robinson
Joseph W. Sumner
Mary Clay Torian
Elson K. Williams

Calvin L. Kiah, Ex-officio

Objectives of Graduate Study

Savannah State College is aware of the large number of elementary school teachers in this immediate area and in the southeastern section of the country who are interested in furthering their professional development. The College has long established itself as an institution dedicated to serving the needs of public school teachers and, through them, public school children. By offering advanced preparation to those who professionally serve in elementary schools, the College hopes to aid in the development of teachers who possess the highest qualities of character, commitment, and professional competence. This aim will be facilitated by (1) encouraging the student to do scholarly study in advanced professional, specialized and general education subject matter; (2) helping the student become acquainted with the most recent research developments in child growth and development and the latest trends in curriculum for elementary education; (3) deepening his appreciation for performance in scientific investigation and research; and (4) promoting personal and professional maturity of

the student that will be reflected in his relationships as he goes about his work in the community and in the field of education.

Admission to Graduate Study

The Master of Science degree program at Savannah State College is designed for furthering professional growth and competency, expanding professional and cultural backgrounds, extending knowledge and understanding in an area of specialty, and deepening appreciation for and upgrading performance in scientific investigation. To be admitted to graduate status, the applicant must hold a baccalaureate degree from a college which is accredited by its regional association and must meet other requirements specified below. Admission will be restricted, however, to include only those students whose academic records indicate that they can successfully undertake graduate work. All degree-seeking students must receive the recommendation of the chairman of the division in which they plan to do their major study and the chairman of the Division of Education.

PROCEDURES

Procedures for admission include the following steps:

1. Obtaining application for admission from the Office of Graduate Studies.
2. Returning the completed application as soon as possible but at least twenty (20) days prior to the quarter when the applicant expects to enroll.
3. Requesting the registrars of all colleges and universities previously attended to send two (2) official transcripts to the Graduate Studies Office.
4. Requesting that recommendation forms, test scores, and other required data be sent to the Graduate Studies Office.

Action can be taken on applications for admission only after all of these steps have been followed.

ADMISSION TO GRADUATE STUDY DOES NOT IMPLY AUTOMATIC ACCEPTANCE AS A CANDIDATE FOR THE MASTER OF SCIENCE DEGREE.

TYPES OF ADMISSION

1. Regular Admission

A student holding a bachelor's degree from an accredited college with a cumulative average acceptable to the Graduate Council, who has earned a score on the National Teacher Common Examination which is acceptable to the Graduate Council, and has completed all of the prerequisites for his proposed major area, will be admitted with full graduate status.

2. Conditional Admission

With the approval of the department of his proposed graduate major, the Chairman of the Division of Education, and the Director of Graduate Studies, a student whose scholastic record does not fully meet the requirements for regular admission may be granted conditional admission. Such a student may be required to complete any prescribed prerequisite work without graduate credit.

3. Special Graduate Students

The Graduate Council recognizes the admissions classification of Special Graduate Students for those students who do not wish to pursue a graduate degree, including teachers whose main purpose is to obtain credits necessary to keep their teaching certificates in force. Such students may be admitted to graduate courses under conditions specified at the time of admission by the Director of Graduate Studies in consultation with the appropriate divisions. If the student should later decide to apply for admission as a degree-seeking student, he must make a formal application and must meet all of the requirements set forth for regular admission.

ADMISSION TO CANDIDACY

Upon admission to the graduate program, the student will be assigned an adviser who will guide him in developing his program.

Upon successful completion of 25 quarter hours of work for graduate credit, the student will be required to file an application for admission to candidacy. The student will submit four copies of the completed application to his Divisional chairman.

Approval of the application will be based upon certification by the student's advisor that:

- (a) He has been admitted to full graduate status
- (b) He has maintained a "B" average in all work attempted

Retention of Students

A student who is admitted to the Graduate Program may continue to enroll for courses until he has taken a sufficient number to have accumulated thirty (30) quarter hours. However, any student who completes fifteen (15) quarter hours in graduate level courses without achieving a "B" average shall be considered on probation, and shall be notified of this status by the Graduate Office. Any student who completes thirty (30) hours of graduate level course work without achieving a "B" average shall be requested to withdraw from the Graduate Degree Program.

Summary of Requirements for The Master of Science Degree

General regulations for obtaining the Master of Science degree at Savannah State College are summarized as follows:

1. Admission to full graduate status.
2. Admission to candidacy for the degree.
3. Satisfactory completion of sixty (60) quarter hours of approved graduate level course work.
4. Maintenance of a "B" average, with no more than four (4) courses or twenty (20) quarter hours with a C grade. Courses within the professional sequence must be completed with a grade of not less than "B" to be considered "passing."
5. Filing an application for the degree not later than the deadline dates if candidate fails to graduate at the expected time.
6. Satisfactory completion of a comprehensive examination.

Students Responsibility

The student is charged with personal responsibility for taking the initiative in meeting all requirements and in maintaining a careful check on his progress toward earning the degree. Neither the College nor any other person has this responsibility. The student is expected further to discharge his obligations to the business office and the library and to meet all other rules and regulations appertaining to graduate students.

Transfer of Credits

Upon recommendation of the Director of Graduate Studies to the Graduate Council with approval of the Division of the academic area concerned, a maximum of two courses or the equivalent of ten quarter hours of graduate work may be transferred from another recognized institution. Credits so earned will not reduce the residence requirement.

Course and Residence Requirements

A minimum of sixty (60) quarter hours, acceptable to the Graduate Council, must be earned as the course requirement for the masters degree. Credit for a minimum of fifty (50) quarter hours must be earned in residence. Courses to be counted for residence may be accumulated on a full-time or part-time basis.

SPECIALIZED CONTENT COURSE REQUIREMENT

Graduate students majoring in elementary education must take a minimum of twenty-five quarter hours of their required sixty quarter hours in the specialized content of elementary education. These specialized courses may be chosen from the following areas: art and music, foreign languages, health and physical education, language arts including reading, literature, speech, linguistics, mathematics and science, and the social studies. Educational background, types of teaching experience, specific needs, interests, and goals of students will be the determinants for staff advisement in student selection of content areas. Upon the basis of the foregoing factors, students may

choose specialized courses from two or from several of the content areas.

APPLICATION FOR THE DEGREE

At the time that he registers for his final quarter of course work, the student must file an application for the Masters Degree with the Graduate Studies Office.

Load Limitation

A full-time student is restricted to a maximum of fifteen (15) quarter hours during any quarter. Graduate students teaching full time are limited to a load of 15 quarter hours per academic year.

Withdrawals

To withdraw from the graduate studies program, a student will present a written notice to the Registrar of the College who in turn will notify the Office of the Director of Graduate Studies and the instructors concerned. A student may withdraw from a course at any time during the quarter, with the exception of the last two weeks before final examinations.

The Graduate Council reserves the right to request the withdrawal of any student at any time during this course of studies if he does not meet the required standards of scholarship, or if he cannot remain in the College without endangering his own health or the health of others, or if he fails in any other particular way to come up to the standards of the College.

Attendance

Graduate students are expected to attend all classes for which they have registered. In case of unavoidable absences, the student is responsible for making arrangements with his instructors to do any make-up work which may be required.

Time Limit

Students working toward the Master of Science degree must complete all requirements for the degree within a period of not more than six years from admission to the degree program. Extension of time may be granted only in case of unusual circumstances.

GRADUATE COURSES

Courses numbered 500 to 599 are open to both undergraduate and graduate students. In such courses, the quantity and quality of work required of the graduate students will be on the same level as that

required in those courses which are offered exclusively for graduates. Six hundred (600) courses will be open only to graduate students. A candidate for the Master of Science degree must take at least fifty per cent of his courses on the 600 level.

Unless otherwise specified, each course will yield five quarter hours credit.

Philosophical and Historical Foundations

- 611 Philosophy and History of Education. Modern philosophical systems and their impact on educational theory and practice.

Psychological Foundations

- 521 Tests and Measurements. Principles and procedures in evaluating pupil growth.
- 522 Introduction to Exceptional Children. A study of how to find, diagnose, and educate the atypical child.
- 523 Methods of Studying Children and Youth. Principles and procedures in evaluating pupil growth.
- 525 Mental Hygiene in Teaching. A consideration of the forces and influences on what constitutes normal behavior in personal and social relationships within the school setting. Student behavior, teacher behavior, and student-teacher interaction dynamics will receive major attention. Open to qualified undergraduate students, graduate students, and teachers seeking renewal of certificates.
- * 621 Advanced Studies in Human Growth and Development. A comprehensive view of human growth and development with emphasis upon the recent literature in these fields.
- * 622 The Nature and Conditions of Human Learning. An advanced study of the various theories of learning with emphasis upon the latest ideas in this field.
- 625 Contemporary problems in Educational Psychology. A seminar to explore contemporary problems of a psycho-social nature affecting education. (Open to selected undergraduates as Education 524.) Prerequisites: Two or more courses in psychology or sociology or a combination of the two.

Social Foundations

- * 631 Social Foundations of Education. Basic graduate course in the contributions of the social sciences to education, focused on the significant issues and problems of education.
- 632 Education and Minority Group Problems. A study of intergroup education related to the problems of American ethnic, racial and religious minorities.

*Twenty hours of professional education and research must be chosen from these courses. A grade of "B" is necessary for passing.

Curriculum and Teaching

- 541 Methods of Teaching Reading. Basic principles and methods underlying elementary school reading program.
- 542 Literature and Language Development. This course is designed to acquaint elementary teachers with the stimulating language environment of the wide world of literature for children. The literature approach to language learning seeks to assist the teacher in guiding children to become active, sensitive learners who seek to explore, inquire, and discover.
- 547 Curriculum and Methods of Teaching the Culturally Disadvantaged. This course will provide opportunities for participants to familiarize themselves with the socio-economic and cultural backgrounds of culturally deprived youth. It will utilize resource consultants from community agencies and organizations whose personnel are intimately involved in the tasks of improving the quality of life in the ghettos of Savannah and nearby communities. The course will then seek to develop the implications of these characteristics for the teaching-learning situation. Finally, the course will serve as a laboratory course for developing curricular materials based on African and Afro-American cultures, and teaching strategies based on the characteristics of the disadvantaged learner, and for testing these materials and strategies using disadvantaged pupils from grades 7 through 12.
- * 641 Curriculum Planning. Trends, issues, and understandings needed for curriculum development and teaching.
- 642 Seminar in Elementary Education. Opportunities to analyze issues, theories, and practices in elementary education. Credit, one to five quarter hours.
- 643 Problems in Reading. Investigation of problems met in the teaching of reading.
- 644 Teaching of Foreign Languages in Elementary School. This course is intended for persons demonstrating a first year knowledge of French or Spanish who plan to teach one or the other language in the elementary schools.

Instructional Media and Procedures

- 551 Newer Teaching Media I. The first course in a two-course sequence. Multisensory learning and the utilization of audiovisual materials, newer teaching hardware, and programmed materials.
- 651 Newer Teaching Media II. An advanced course continuing in-depth study of newer teaching media. Prerequisite: EDN 551.

Guidance and Student Personnel Administration

- 661 Principles and Practices of Guidance. An introduction to the philosophy and procedures of guidance in both the elementary and secondary school.

*Twenty hours of professional education and research must be chosen from these courses.

- 662 Guidance in Elementary Schools. Application of the guidance point of view and guidance techniques to the elementary school classroom. Emphasis is upon the teacher's role in cooperating with professional guidance workers.

Research and Independent Study

- * 671 Educational Research. Methodology of educational research and its application to instruction and guidance.
- * 672 Field Project. An "on-the-job" research project dealing with improvement in the student's specific situation.

Administration and Supervision

- 581 Directing and Evaluating Student Teaching. Information, skills and understandings required for effective supervision of student teachers. Selected teachers.
- 582 Internship for Supervising Teachers. Cooperative field experience involving public school teachers, student teachers, college personnel.
- 583 Seminar in Supervision. An opportunity for experienced supervising teachers to evaluate criteria and to develop plans for increasing skills in guiding student teachers.

Specialized Content Courses

- 591 Science for Elementary Teachers. Opportunities for acquiring basic knowledge in science appropriate for the elementary grades.
- 592 Modern Mathematics for Elementary Teachers. Content concentration emphasizing the rigor, mathematical language, and subject matter to be taught in the elementary school.
- 691 Environmental Science. Exploration of science principles through problem-solving. Designed to make environmental science situations meaningful.
- 692 Zoology for Elementary Teachers. Modern approaches to teaching the biological sciences. Emphasis on understanding of life processes in the animal kingdom.
- 693 Botany for Elementary Teachers. Lecture—laboratory course dealing with principles involved in classifying and identifying plant life.
- 694 Chemistry for Elementary Teachers. A study of the more important metallic and non-metallic elements with emphasis on practical application at the elementary school level.
- 695 Earth Science for Elementary Teachers. Composition of earth, classification and identification of rocks and minerals.
- 696 Geography for Elementary Teachers. A critical examination of instructional procedures and techniques in teaching geography in elementary grades. Selection, organization and presentation of

*Twenty hours of professional education and research must be chosen from these courses.

structured facets of human environment, both cultural and physical. Emphasis given to the conceptional approach in the analysis of space and regional interaction.

Music Education 500—Current Problems in Music Education

A course designed to investigate current problems in the area of music education as they are found in the schools. Special emphasis is placed upon the mastery of music fundamentals such as sight-reading, sight-singing, harmonic relationships, and other essential musical skills such as conducting, playing the piano, and composing children's songs. Other activities will include the planning of the music curriculum, the development of organizations, and the administration of the general music program. Credit, five quarter hours.

Math Education 594—Introduction to Educational Statistics (Elective)

Methods of graphic presentation and data reduction, measures of central tendency and variability, probability and the binomial distribution, the Pearson product-moment correlation coefficient (r), the Spearman rank-order correlation coefficient (ρ), linear regression, estimation and inference, and introduction to hypothesis testing. This course focuses on the development of basic skills needed for the interpretation of research reports and research literature in education.

EPDA Reading Institute Courses

The following courses have been approved for graduate credit by the Graduate Council, each carrying five quarter hours of credit, and offered by the Education Professions Development Act Institute in Reading at Savannah State College.

EDN 942 Trends and Practices in the Teaching of Reading. An analysis of trends and practices in the teaching of reading involving intensive critical review of literature used for the disadvantaged in selected areas.

EDN 945 Linguistics and Reading. A component of applied linguistics with special emphasis on the problems of the disadvantaged.

EDN 944 The Psychology of Reading. Concerned with assessment of the psychological bases of reading and reading instruction.

EDN 946 Motivational Reading. Concerned with contingency management system and audiovisual aids as means of motivating the disadvantaged pupil to read.

EDN 947 The Teaching of Reading. The course attempts to cover systematically the reading program in the school from grades one through seven. Major emphasis will be placed on the developmental reading program for the disadvantaged.

EDN 943 New Approaches to Teaching Reading. A study of new successful approaches to teaching reading. (Practicum.)

BACHELOR OF SCIENCE DEGREES

CONFERRED ON JUNE 7, 1970

AND AUGUST 21, 1970

DIVISION OF BUSINESS ADMINISTRATION

Accounting

Arthur C. Curtright	Savannah
Dell Marie Maynor	Red Springs, N.C.
Cheryl Smith Mitchell	Savannah
Warren F. Mitchell	Kingsland
Beverly Bernita Outler	Savannah
Edward E. Rouse, Jr.	Savannah
Benjamin F. White, Jr.	Savannah

General Business Administration

Delores D. Aaron	Savannah
Mary Jo Andrews	Newnan
Jarral Averett	Cusseta
Marcia Quinn Byrd	Savannah
Maxine Cameron	La Grange
Ilo Lerinza Castleberry	Dublin
Bernard Yvonne Conyers	Bainbridge
Dorothy Ann Cook	Sylacauga, Alabama
Shirley Ann Crawford	Savannah
Maria Antoinette Dixon	College Park
Fred Dumas	Macon
Greer L. Evans	Waycross
Mary L. Harris	Savannah
LaVerne Hester	Augusta
Rudolph Hines	Pembroke
Melvin Aldridge Lawrence	Macon
Kenny Leonard	La Grange
Louise Mabry	Alma
Joyce Woodson Mitchell	Savannah
Lenora G. Moye	Savannah
Florine Delores Mullino	Waverly
Darnell Richardson	Ludowici
Arthur Ross	Vienna
Jimmy Rutley	Rochester, N.Y.
Mildred Scott	Cuthbert
Stanley Charles Smith	Savannah
Merritt K. Spaulding	Savannah
Beulah Thomas	Savannah
Mary Gilbert Tootle	Savannah
Otrie Wellons	Cordele
Ella Louise Williams	Savannah
Raymond Williams	Savannah

SECRETARIAL SCIENCE

Joyce L. Blackshear	Savannah
Lucille M. Williams	Savannah

DIVISION OF EDUCATION

Elementary Education

Cynthia Ann Anderson	Savannah
Etta Evonne Anderson	La Grange
Mamie L. Ashmon	Montezuma
Annie Bell Morgan Baker	Valdosta
Glynda Lynetta Bens	Brunswick
Roberta Eleanor Billups	Swainsboro
Vireginer Latrice Bryant	Atlanta
Ronald Clark	East Orange, N.J.
Beverly Johnson Copeland	Savannah
Lillie Ruth Cuthbert	Meridian
Carolyn David	Savannah
Charles Eugene Edwards	Folkston
Barbara Ann Ellison	Savannah
Georgia McPherson Everett	Chicago, Illinois
Barbara E. Fouch	Lincolnton
Evelyn Frasier	Ludowici
Betty J. Frazier	Savannah
Mary Frances Glover	Savannah
Christola Borden Grace	Waycross
Estelle Grant	Hilton Head, S.C.
Ann Delores Hayes	Thomasville
* Claudia Howell	Savannah
Gloria A. Johnson	Macon
Jessica P. Johnson	New Orleans, La.
Julia M. L. Jones	Athens
Margaret Battle Jones	Savannah
Jewell L. Joseph	Kingsland
Ruby G. Lipscomb	Savannah
Gloria C. Mattox	Bowman
Freda Pauline McDew	Savannah
Elijah L. McDuffie	Savannah
Rosetta Mills	Savannah
Margaret E. Mollette	Savannah
Elspie Moore	Savannah
Martha Myrick	Savannah
Constance Jones Newsome	Savannah
Helen Richson Olar	Savannah
Carlotta Patterson	Savannah
Bernard Perry	Valdosta
Brenda Joyce Roberts	Guyton
Lena Gladine Scream	Dublin
Ida Lou Sello	Sardis
Evelyn Smalls Smith	Savannah
Shealia Gordy Stephens	Sandersville
Doris Walker Stewart	Savannah
Edward Stinson	Miami, Florida
Annie Pearl Sumner	Baxley
Almisha Surrency	Blackshear
Ollie Mae Tate	McIntosh
Fredia Mae Walker	Townsend
JaRene Westmore	Savannah
Annie Nell Williams	Gainesville
Gwendolyn LaVoria Williams	Louisville
Faye Alice Williams	Savannah
* Lufreda Williams	Savannah
Jacquelyn Diana Wyatt	Atlanta
Margie Ruth Young	Gainesville
Shirley Young	St. Petersburg, Florida

SECONDARY EDUCATION

Gail Leevon Alston		Savannah
	Social Science	
*Georgia Edna Wright Benton		Savannah
	Mathematics	
Ola M. Bryan		Savannah
	English	
Bobby Swain Carlyle		Millen
	English	
Claude W. Carpenter		Columbus
	Trade and Industrial Education	
Gloria Eugenia Carswell		Macon
	Mathematics	
*Patricia Dianne Carre		Savannah
	Mathematics	
Anita Yvonne Davis		Macon
	English	
Christine Barksdale Dawson		Columbus
	Business Education	
*Daisy Douglas		Tifton
	French	
*Harold Lewis Ector		Griffin
	English	
Charles Ferguson		Newark, New Jersey
	Social Science	
Jacquelyn Delores Foster		Valdosta
	English	
Gathan Galloway, Jr.		Mullins, S.C.
	Social Science	
Peggy Ann Gaskin		Pearson
	Mathematics	
*Charlie Gaulden, Jr.		Savannah
	Industrial Arts Education	
Ernest Gillis		Vidalia
	Social Science	
Franklin Goldwire		Savannah
	General Science	
Lucy Goodall		Savannah
	General Science	
Tommy L. Hart		Waynesboro
	Music Education	
*Emma Jean Hawkins		Savannah
	Spanish	
Gwendolyn Hicks		Savannah
	Business Education	
Birl Dunk Hill, III		Athens
	Music Education	
Linda M. Jackson		Macon
	Business Education	
Linda M. Jackson		Jesup
	Mathematics	
Leonard Jenkins, Jr.		Savannah
	English	
Jessie Marie Johnson		Savannah
	Social Science	
Emanuel Larkin		Milledgeville
	Social Science	
*Ludie Annett McCambry		Newnan
	English	
Linda Marie Manning		Dillon, S.C.
	Business Education	
Josephine Maxwell		Savannah
	Business Education	

#Sandra Ann Meachum	Savannah
Social Science	
Jimmie Mitchell	Thomasville
Industrial Arts Education	
William E. Monroe	Augusta
Trade and Industrial Education	
Miriam McMullen	McDonough
Music Education	
Eddie L. Ogden	Savannah
Industrial Arts Education	
Jimmie Owens.	Hahira
Industrial Arts Education	
Gloria J. Perkins	Statesboro
Music Education	
Joyce Lynda Perry	Savannah
Mathematics	
*Margaret L. Powell	Savannah
English	
Charlie Platt	Miami, Florida
Industrial Arts Education	
Phillip Parker	Jesup
Social Science	
James Price	Girard
Social Science	
Rose Marie Robinson	Pensacola, Florida
Mathematics	
Gertrude Rowland	Augusta
Business Education	
Dorothy Larmar Sanders.	Savannah
English	
Norma Jean Smith	Orlando, Florida
English	
Roy E. Thomas	Dublin
Social Science	
Billy Tillman	Brooklet
Mathematics	
Wahwee Walker Welcome	Savannah
English	
Jeanett Wiggins	Savannah
English	
Priscilla Williams	Keysville
Business Education	
Rennis Jacobs Williams	Tifton
Social Science	

HEALTH, PHYSICAL EDUCATION & RECREATION

Willie James Benyard	Savannah
Willie W. Booker	Lakeland, Florida
Carl Crump	Bronx, N.Y.
Barry Phillip Gold	Mt. Pleasant, S.C.
Brenda Marshall Jenkins	Savannah
Jason D. Linder	Statesboro
Carolyn Delores Mosley	Swainsboro
Lawrence D. Oliver, Jr.	Philadelphia, Pa.
Carolyn Ann Prince	Savannah
Willie F. Roberts	Savannah
Anthony Sheffield	Tampa, Florida
Gloria Fields Stephens	Savannah
Ruby N. Whipple	Dublin
Lois Vedell Williams	Savannah
Lewis J. Witherspoon	Charleston, S.C.

DIVISION OF HUMANITIES

English Language and Literature

Benjamin Harris	Savannah
Juanita Marie Jackson	Savannah
Jane E. Richardson	Riceboro

DIVISION OF NATURAL SCIENCE

Biology

Charles Clifford Alston	Savannah
Carolyn A. Bostic	Savannah
Doris Braxton	Savannah
Shirley A. Allen Brown	Savannah
Rosie L. Brown	Milledgeville
Lillian B. Bryan	Savannah
#Calvin Butts	Savannah
Willie Daniel Cammon	Rome
Connie S. Carmack	Columbus
Sandra J. Allen Carter	Savannah
Terry Jean Dempsey Chisholm	Helena
Henry J. Cook	Savannah
Ervin Crawford	Walterboro, S.C.
Arthur Columbus Davis	Fitzgerald
Lula M. Harden	Guyton
*Juanita Harris	Washington, D.C.
Peggy Jean Herrington	Sardis
Lynda Faye Minor	Savannah
Linda Marie Plummer	Savannah
*Thomasina Robinson	Savannah
Brenda Dianne Sawyer	Savannah
Addie Scott	Savannah
Emma Rhuetelia Singleton	Jacksonville
Rufus Dinkins Stephens	Savannah
*Harold Jerome Wesley, S.	Dothan, Alabama

CHEMISTRY

Barry James Ellis	Broxton
Minnie Priscilla F. Groover	Metter
Curtis Hicks	White Oak
Azzie Kinsey, Jr.	Tampa, Florida
Ronald Boulware Lambert	Savannah
Betty Loadholt	Savannah
Sharaveen Brown Newbold	Miami, Florida
*Sophia Delores Wayne	Kingsland

MATHEMATICS

Shirley Ann Austin	Fitzgerald
Angela Barbara Boles	Savannah
Emma Sue Williams Fleming	Bainbridge
*Comer Mae Thompson Gaskin	Savannah
David N. Goings	Mullins, S.C.
Wilbur B. Haven, III	Savannah
Amos Johnson	Savannah
Larry Keels	Nashville
Willie L. London	Athens
Charles Odel Martin	Alenhurst
Roberta E. McFadden	Savannah
William Ellis McMullen	Savannah
Tommy Pringle	Georgetown, S.C.
*David Roberson	Savannah
LaVenita Salley Wyley Rilington	Savannah

DIVISION OF SOCIAL SCIENCES

Sociology

Elizabeth Simpkins Boles	Brunswick
Geraldine Bostic	Savannah
Charlotte S. Blount	Collins
*Lamar Clarke	Columbus
Joe Ann Daniel	Athens
Betty J. Demere	Savannah
Alfred Dennis	Charleston, S.C.
Jimmy L. Denegal	Jesup
Rosalyn Thereas Edwards	Savannah
James Green, Jr.	Savannah
Richard Hicks	Columbus
Lenora Hill	Hogansville
James Eugene Hill	Richmond Hill
Carolyn Horton	Tifton
Rosella Bernice Houston	Savannah
Dorothy Ann Howell	Columbus
Udella Huckaby	Moultrie
Doris Ann Hughey	Gainesville
Dazola Jackson	Savannah
Harold Jackson	Savannah
Charlie Lemmons	Macon
Carlton E. McKenna	Savannah
James P. McKiever	Savannah
Rose M. McKinzie	Savannah
Elaine Morris	Savannah
Gloria Moultrie	Savannah
Richardean D. Osborne	Savannah
Gertrude Palmer	Savannah
Julian S. Palmer	Savannah
James E. Powers	Savannah
*Michael C. Pratt	Savannah
Thaddis Christopher Rallings	Atlanta
Willie Rayford	Valdosta
James Robinson, Jr.	Glennville
Harold Roundtree	Millen
Betty A. Seabrook	Frogmore, S.C.
Eartha Bell Singleton	Savannah
Mary L. Smalls	Savannah
Ruby Mae Smith	Augusta
Emily O. Tait	Savannah
Katie M. Tindal	Savannah
Ruby L. White	Milledgeville
Marsha R. Woodhouse	Savannah

HISTORY

*Bennie Arkwright, Jr.	Savannah
Tommy Elder, Jr.	Covington
*Clarence Leon Martin	Baxley
*Merolyn Marie Stewart	Union Point

DIVISION OF TECHNICAL SCIENCES

Electronics Technology

Calvin S. Atkinson, Jr.	Brunswick
*Lawrence Bell	Savannah
*Tom Bolden	Lyons
Robert Bratton	Savannah
Larry Hugh Daniels	Macon

Ezra Gatewood	Newark, New Jersey
Douglas W. Jones	Hartwell
Clyde Alfonzia Mitchell	Savannah
Clarence Odom	Sarasota, Florida
Edward Oliver	Bryonville
Arthur Roberts, III	Savannah
Don McKindley Roberts	Damascus
Robert Lee Waters, Jr.	Quitman

Mechanical Technology

James Roy Bivins.	Atlanta
George Nelson Cobham	Savannah
John Henry White, Jr.	Charleston, S.C.

Civil Technology

Johnell Jackson	Bainbridge
W. Eugene Miller	Macon

Dietetics and Institutional Management

Lynette Delorise Alston	Ridgeville
Beverly Wade Smith.	Savannah
Teresa M. Spivey	Savannah

Textiles and Clothing

Mary Jane Eady	Savannah
Dollie L. Eaddy.	Blackshear
*David T. Huckaby	Moultrie
Lillie Morris Jenkins	Oakland, California
Shedrick R. Jordan	Thomasville
Jacquelyn Elaine Miller	Macon

MASTER OF SCIENCE DEGREE

Elementary Education

Carolyn S. Anderson	Savannah State College, B.S., 1959
Edith S. Brown	Savannah State College, B.S., 1961
Gloria S. Brown	Savannah State College, B.S., 1956
Martha B. Coolidge	Armstrong State College, B.S., 1968
Otis Cooper	Savannah State College, B.S., 1951
Lillie K. Ellis	Savannah State College, B.S., 1966
Adlene G. Kennedy	Savannah State College, B.S., 1965
Myrtice J. Lewis	Savannah State College, B.S., 1953
Musetta B. Martin.	Savannah State College, B.S., 1966
Constance H. Nash	Savannah State College, B.S., 1967
Willie J. Pippen	Alabama State College, B.S., 1964
Mary E. Roberts	Savannah State College, B.S., 1953
Velma G. Simmons	Spelman College, Atlanta, A.B., 1950
George E. Varnedo	Savannah State College, B.S., 1951
Dorothy B. Vaughn	Savannah State College, B.S., 1958
Virginia B. Whitehead	Savannah State College, B.S., 1968

Magna Cum Laude

*Cum Laude

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